# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 13, 1908.


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## CONSTRUCTION NEWS.

### PLANS AND SPECIFICATIONS ON FILE.

*(* denotes that this work is advertised in Engineering News.)*

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### RAILWAYS.

*(* denotes that this work is advertised in Engineering News.)*

ATLANTIC, QUEBEC & WESTERN.—This company, which has in operation the line from New Carlisle, Que., north to Port Daniel, about 20 miles, has given a contract to the NEW CANADIAN CO., Ltd., of Paspebiac, Que. Work is now under way from mile 20 to mile 102. A. Lemieux is Gen. Mgr., Montreal, Que. Noted on Aug. 29.

CANADIAN PACIFIC.—Improvements to the Fernie, B. C., yards will be made in the spring. Estimated cost, $50,000.

DENVER & GULF.—This company, which was incorporated about one year ago to build a railroad from Denver, Colo., to Port Arthur, Texas, has put surveyors in the field southeast of Denver and has made applications to several towns for right-of-way and franchises. Officials of the company have made a proposal to the citizens of Lamar, Colo., to make that town a division point and build a roundhouse and shops there on condition that a bonus of $25,000, right-of-way and twenty acres of land be given. The company was incorporated in Oklahoma last spring to build a road from La Junta, Colo., to Snyder, Okla. The capital stock was placed at $2,000,000. A few months ago the articles of incorporation were amended increasing the capital stock to $10,000,000 and providing for the construction of a road from Denver, through Lamar, La Junta and the southeastern part of the State, through Snyder and Texahoma, in Okla., and Canadian, Tex., to Port Arthur, on the Gulf of Mexico. The proposed line is to be 600 miles long. The officers of the company are: R. E. Davis, Pres.; W. R. Evans, First Vice-Pres.; N. M. Davis, Second Vice-Pres., and James Hicks, Ch. Engr., all of Denver. Noted on Jan. 9.

FLORIDA EAST COAST.—The first section of the Key West extension of the Florida East Coast Railroad from Miami to Knight's Key, Fla., a distance of 109 miles, was opened for passenger traffic on Feb. 5 after a trial trip made by H. M. Flagler and his officials on Feb. 4. The train, which contained 100 passengers, mostly visitors at Miami, left there at 11 a. m., arrived at Knight's Key at 4 o'clock in the afternoon, and returned to Miami in the evening. The new service will shorten the time from New York to Havana by ten hours. J. C. Meredith is Const. Engr., St. Augustine, Fla.

GRAND RAPIDS & NORTHERN.—Incorporated in Michigan with $3,000,000 capital. This railroad will connect Ludington and Grand Rapids and will be 95 miles long. It will shorten the distance between these cities by 25 miles. At the first annual meeting of the stockholders held recently at Grand Rapids, officers were elected as follows: Pres., Marshall F. Butters, Ludington; Vice-Pres., George Clapperton, Grand Rapids; Secy., Samuel Topliffe, Chicago; Treas., George N. Stray, Ludington. It is planned to begin construction work at several points along the grade as soon as possible in the spring. The old roadbed of the Manistee & Oceana Ry., now in operation from Ludington to Walkerville, Oceana County, a distance of 40 miles, will be used. This road is graded to Hesperia, a distance of several miles further, and work will be started at several other points in the 50 miles between that city and Grand Rapids.

IDAHO.—A. C. Eitzen, of Nezperce, Idaho, is promoting a railroad in Idaho. According to the Boise "News," Mr. Eitzen has made the following statement: "We expect to have a railroad running into Nezperce by next October. We have at present four miles of road graded and we will present a proposition to the Lewiston & Southern Electric Co. which proposes to build an electric line into our town, and if they are not in position to commence work reasonably soon we will build our own line. We will be required to build 14 miles of road to connect with the Grangeville extension of the Northern Pacific near Vollmer and practically all of the lumber and greater part of the ties will be given by farmers interested in the line. It will require $36,000 to purchase steel rails and with the donations in sight the line can be built for $80,000. We shall then invite the Northern Pacific to equip the line with rolling stock, but in case they refuse we will put an engine in service and deliver cars to the Great Northern R. R. We expect to begin work on the road in 90 days and warehouse building will begin at the same time."

IDAHO NORTHERN.—We are officially advised that this company has under construction 33 miles of line between Paragon Gulch, five miles above Murray, Idaho, to a connection with the O. R. & N. R. R., at Enaville, Idaho. Work has been in progress for the past four months. E. P. Spalding, Wallace, Idaho, is Vice-Pres. and Gen. Mgr. and W. P. Smith, Enaville, Idaho, is Ch. Engr. Charles Mather, 3d Ch. Engr., Enaville. Noted on Jan. 16.

MIONA SPRINGS.—J. R. Lane, Vice-Pres. and Gen. Mgr., Fort Valley, Ga., writes us that about ten miles of grading are completed on the line from Southland to Miona Springs, Ga., which will be 29 miles in length. Noted on Jan. 16.

NEW YORK, NEW HAVEN & HARTFORD.—This system after Feb. 16 will be operated in seven divisions instead of ten, as heretofore. The Plymouth, Taunton, Hartford, Berkshire, Naugatuck & Air Line-Northampton divisions lose their identity, being embraced in various new divisions. The trackage of the company will, when the order goes into effect, consist of the following divisions: New York, Shore Line, Providence, Boston, Old Colony, Midland, and Western. The New York division will include the trackage from the Grand Central station in New York to Stamford, the New Canaan branch and the line from the Harlem River to New Rochelle, including the New York and Harlem River water terminals.

*PHILADELPHIA & READING.—Bids are asked by this company until noon, Feb. 27, for construction of the work appurtenant to the abolishment of grade crossings on the P. G. & N. R. R. as follows: Contract No. 28, car cleaning yard, Huntingdon St.; Contract No. 30, coal pocket yard between Berks and Norris sts (east side). Foreign corporations must furnish with their proposals a certificate from the State authorities, entitling them to do business within the State of Pennsylvania. W. Hunter, Ch. Engr., Philadelphia.

ROCKPORT, SHENANDOAH & DES MOINES.—Woodford N. Davis, St. Joseph, Mo., Pres., advises us that this company plans to build a railroad 38 miles long, from Langdon, Mo., via Rockport, to Shenandoah, Iowa. Six miles are in operation between Langdon and Rockport by the "Rockport, Langdon & Northern Ry." Connection is made at Langdon with the Chicago, Burlington & Quincy Ry. Surveys are made for the Rockport-Shenandoah line and right-of-way secured. Capital has been arranged for. Motive power will be steam and gasoline motors. W. S. Cartter is Ch. Engr., 301 Oriel Bldg., St. Louis. Mo. W. K. PALMER & CO., Dwight Bldg., Kansas City, Mo., are contractors. Other contracts will be let about April 1. (Noted last week under "Missouri.") Also noted on Jan. 19.

ST. LOUIS & OKLAHOMA SOUTHERN.—The headquarters of the MONETT & SOUTHWESTERN CONSTRUCTION CO. are in the Commonwealth Trust Bldg., St. Louis, Mo., and not Monett, Ark., as noted last week. This company, which will construct a portion of the new line, recently voted to issue a preliminary bond of $150,000 for construction purposes, with the provision of increasing it to $10,000 per mile as the work progresses. The following officers were elected: John B. Christensen, of St. Louis, Pres.; Thomas J. Adair of Tahlequah, Okla., First Vice-Pres. and Treas; John H. Elton, Second Vice-Pres.; C. L. Stoner, Secy.; Charles Young of Fort Wayne, Ark., Ch. Engr.; G. G. Motheny, Supt. of Const.; and Henry Rohwer, Consult. Engr. The St. Louis & Oklahoma Southern Ry. Co. has taken out a charter in Oklahoma similar to the one issued to it in Missouri.

SAN DIEGO SOUTHERN.—Company has been incorporated under this title in California for the purpose of building a railway from San Diego, Cal., to Ensenada, Mexico, with branch lines from San Diego to Coronado to La Presa, through the Jamulca and Jamacha valleys and to Lakeside. The estimated total length of the lines proposed is 150 miles. Capital stock is $5,000,000. The directors are: John D. Spreckels, A. B. Spreckels and John D. Spreckels, Jr., all of San Francisco, and William Clayton and Harry L. Titus of San Diego, Cal. The articles of incorporation state that it is to be a standard-gage commercial road and that steam, electricity or other motive power is to be used.

TRANS-CONTINENTAL.—Bids are asked by P. E. Ryan, Secy. Trans-Continental Ry. Comn., Ottawa, Ont., until March 10, for the construction of the following sections:

District "A"—From a point about the 58th mile west of Moncton, N. B., to the crossing of the Intercolonial Railway at or about mile 97.7, a distance of about 39.7 miles.

District "A"—From a point at or about the crossing of the Intercolonial Railway by

the Trans-Continental Railway at mile 97.7 west of Moncton to the Tobique River, at or about mile 165.7 less one mile, a distance of about 67 miles.

District "A"—From a point at or near the Tobique River to a point shown on the said plans about 2½ miles west of the Town of Grand Falls, a distance of about 31.5 miles.

District "B"—From a point at or near the boundary line between the Provinces of Quebec and New Brunswick, westerly a distance of about 52.4 miles.

Bids are asked at the same time for the following:

District "D"—From a point about eight miles west of the Abitibi River crossing, Ontario, westerly for a distance of about 100 miles.

District "E"—From a point about 19½ miles west of the crossing of Mud River, near Lake Nepigon, Ontario, easterly for a distance of about 75 miles.

## ELECTRIC RAILWAYS.

HARTFORD, CONN.—The State Railroad Commissioners have issued an order approving the right-of-way and construction of the Shore Line Electric Railway Co. in the town of Saybrook; also for the securing required land in Old Saybrook, and in the town of Essex.

CHAMBERSBURG, PA.—We are officially advised that the Chambersburg, Greencastle & Waynesboro St. Ry. Co. is extending its line 11½ miles from the present terminus at Greencastle to Chambersburg. Track, poles, and trolley wire are up for about one-half the distance. Company is asking for sealed bids for increase of generating capacity at power house installed complete, including a 500-KW. 2,300-volt, 60 cycle, 3-phase steam turbine or engine driven generating set; jet condenser and cooling tower and a 50-KW. steam driven exciter set and a switchboard panel. Also on a 14-mile transmission line 23,000 volt, 3-phase, to be erected on existing poles. A transformer and sub-station equipment complete. A 10½-mile 4/0 D. C. feeder erected. The line is to be in operation about June 1. Jos. E. Geiser, Elec. Engr. and Supt., Waynesboro, Pa. Noted on Nov. 7.

WEST CHESTER, PA.—The West Chester & Wilmington Electric Ry. Co. has received its charter in Delaware. The capital stock is $200,000. The capital stock of the Pennsylvania company is $300,000 and a charter for that company was granted in Pennsylvania in December, as noted on Jan. 9. The incorporators of the Delaware company are T. E. O'Connell, C. P. Faucett and Dr. F. Harvey Day, Isaac C. Elliott and Howard D. Ross, all of Wilmington. The company was required to deposit with the state $3,000 as a bond to build the road in that state. J. Frank Ball, Wilmington, is Counsel. Mr. O'Connell is Pres., West Chester, Pa. Noted fully on Dec. 5.

SLATINGTON, PA.—The Franklin & Towamensing St. Ry. Co., Slatington, has secured the right-of-way for its line, which is to be nine miles long, extending to Lehighton. Construction will be started soon and it is planned to have cars running between Slatington and Bowmanstown this year. I. W. Cramp, Harrisburg, Pa., is Engr.

SHREWSBURY, PA.—Company has been organized at this place to build an electric railway to York. Last week officers were elected and an executive committee appointed to carry on the work. The officers are: David C. Goodling, Loganville, Pres.; Charles Williams, Paradise, and C. B. Smith, Shrewsbury, Vice-Pres.; John H. Keller, Shrewsbury, Secy.; W. G. Allen, Shrewsbury, Corresp. Secy.; Jacob L. Myers, Glen Rock, Treas. Executive Committee—W. G. Allen, William Able and J. H. Keller, Shrewsbury; D. E. Goodling, Frank J. Beck, J. W. Bailey and Samuel Hartman, Loganville; George M. Leader and Chas. A. Williams, Paradise; Jacob L. Myer and B. F. Seitz, Glen Rock; G. F. Miller, New Freedom.

MEADVILLE, PA.—The Central Crawford Traction Co. has been organized by citizens of Crawford County for the purpose of building or securing the building of an electric line railway from Longs Stand, four miles east of Meadville, to Clapville, a distance of 20 miles, completing a connection between Meadville and Titusville. A committee of six was appointed to secure the right-of-way, which it is believed will be readily donated. It is then proposed to donate the right-of-way to whatever company will build the line. If no such company is found the Central Crawford Traction Co. will build the line. Dennis Smith is Pres.; Joseph H. Heard is Secy. and Treas.

IRWIN, PA.—The Irwin & Herminie St. Ry. Co. has been chartered with a capital of $35,000, to build a line between this city and Herminie, a distance of 5½ miles. The line will be subsidiary to the West Penn. Rys. Co. of Pittsburg. Construction will be started as soon as the weather will permit. The directors are: Holman B. Lynn, of Pittsburg, Pres.; H. C. Mullin, McKeesport; W. B. McCain, Allegheny; A. E. Du Bois and C. W. Schenck, Pittsburg.

CHRISTIANA, PA.—Borough Council has granted a franchise to the Conestoga Traction Co. for the construction of its proposed 5-mile extension from Christiana to Atglen and to Parkesburg. H. W. Crawford is Ch. Engr., Lancaster, Pa.

ATHENS, LA.—The Athens Progressive League, recently organized, has appointed a committee to work on the proposition to secure the construction of an electric railway from McNeil, Ark., via Athens, to Natchitoches, La. An electric railway from Shreveport via Minden, La., to Athens is also contemplated. E. A. Watson is Pres.; A. G. Pace, Vice-Pres.; Carl Campana, Secy.-Treas., and S. J. Crump, Asst. Secy.

LISBON, OHIO.—The directors of the Pittsburg, Lisbon & Western R. R. Co., have decided to electrify the entire line which connects New Galilee and Lisbon, Ohio, and to construct a new line eight miles in length from Darlington, Pa., to East Liverpool, Ohio, it is stated. The survey has been nearly completed and all but a small portion of the right-of-way secured. The entire road will be over private right-of-way and at Morado Park will connect with the lines of the Beaver Valley Traction Co., which are owned and operated by the Pittsburg Railways Co., of Pittsburg. This will give a through interurban line from Pittsburg. Branches will be built to Youngstown, Columbiana and Leetonia, Ohio. Several steel bridges will be built, also a long steel viaduct on the new portion of the line. N. B. Billingsley, Lisbon, Ohio, Pres. of the company, states that actual work will be started early this spring. C. Z. Hughes is Supt., Lisbon.

SYRACUSE, IND.—We are officially informed that the Indianapolis, Huntington, Columbia City & Northwestern Ry., which has been in the hands of William L. Self, Syracuse, Ind., as receiver, was sold by order of the Superior Court of Marion County at Warsaw, Ind., on Feb. 1, to Melvin A. Peoples, Chicago, for two-thirds of the appraised value, the minimum price. This electric road has built five miles of track from Syracuse to Vawter's Park, and has about five miles additional graded toward Goshen, Ind. The entire projects contemplate connection of Goshen and Huntington by way of Syracuse, Wawasee Lake and Columbia City. Mr. Peoples is acting in connection with Burns & Co., consulting corporation specialists, Isabella Bldg., Chicago, who propose to reconstruct and extend the road in accordance with the original plan.

VINCENNES, IND.—The directors of the Vincennes Traction & Light Co. have authorized an issue of $100,000 preferred stock for improvements. The company proposes to make extensive improvements, including an extension to South Vincennes, and the doubling of all the tracks in Vincennes. New rolling stock will be purchased and the power plant enlarged. A line to Bicknell may also be built. Geo. E. Henry is Vice-Pres. and Gen. Mgr.

CALUMET, MICH.—We are officially advised that the Calumet & Lac la Belle Traction & Power Co. will build from Calumet, Mich., to Mohawk, Mich., and from Calumet, Mich., to a point in Keweenaw County on Lake Superior. The total length is about 10¼ miles. Surveys have been completed and right-of-way has been obtained by franchise for the most part and other points are now in course of condemnation through the courts. Capital for construction is being publicly subscribed. Some contracts have been let, but for the most part the company is doing its own work. About two miles of subgrade have been completed, poles and ties are now being purchased and orders will be placed for steel the latter part of April. H. J. Vivian is Pres., and Earl K. Stewart is Ch. Engr., Calumet. Noted on Jan. 23.

SPRINGFIELD, ILL.—The Springfield, Beardstown & Quincy Ry. Co. proposes to build an electric railway between Springfield, Beardstown, Petersburg and Quincy. H. H. Colby is Pres.; S. W. Houghton, Vice-Pres.; R. E. Bone, Secy. and Treas. G. L. Harnsberger, Springfield, Ill., is Ch. Engr. The company expects to use the overhead trolley system. It also contemplates locating its power station at Petersburg.

DECATUR, ILL.—After more than a year of delay the City Council of Decatur has granted a franchise to the Decatur, Sullivan & Mattoon Transit Co. for an entrance into this city for an interurban line from Mattoon to Decatur by way of Sullivan. It is said that work on the new line will begin as soon as the weather will permit. Right-of-way and franchises have been obtained in the various towns through which the road is to pass.

RED OAK, IOWA.—A project is under consideration by H. E. Deemer and others, of Red Oak, to build an electric railway from that place to Des Moines, 110 miles. Surveys have been partly made.

CLARKSVILLE, TEXAS.—The Texas Union Traction Co. of Clarksville has been chartered to build an electric railway connecting Texarkana and Sherman, Tex., 154 miles; Paris and Ennis, Tex., 124 miles; Texarkana and Fort Worth, Tex., 215 miles, and Paris and Cleburne, Tex., 155 miles, including extension and spurs. The incorporators and directors are C. P. Moore and John T. Upchurch of Longfellow, Tex., and A. A. St. John, of El Paso, Tex.

CHICKASHA, OKLA.—The Commercial Club is interested in plan to raise $60,000 in aid of the proposed interurban railway promoted by Scott Jones. Noted on Nov. 28.

CLAREMONT, OKLA.—A franchise has been granted to Geo. Wytell, of Claremont, and Joseph McDermott to operate a street railway in Claremont.

PASADENA, CAL.—The North Lincoln Ave. Improvement Association, of Pasadena, is considering plans for incorporating a company to build an electric line on Lincoln Ave. out to the foothills to the north. It is stated that the company will be incorporated for $75,000, which it is believed represents more than the cost of constructing the road. A meeting will be held in the near future and a franchise applied for. A. J. Toolen, Gowan D. Francis and W. M. Mason, all of Pasadena, are Pres., Secy. and Treas., respectively, of the temporary organization.

HANFORD, CAL.—The Hanford & Lemoore Interurban Railway Co. has been incorporated to construct an electric railway from Hanford to Lemoore. The principal place of business will be Hanford, Cal., and the term of incorporation 50 years. The capital stock is fixed at $1,000,000. The following are the directors: F. S. Granger, A. V. Taylor, Joe D. Biddle, L. S. Chittenden, H. P. Brown and Chas. B. King, all of Hanford, and F. A. Lawson, of San Francisco. The articles will authorize a bond issue of $500,000. The officers of the company will be as follows: Pres., A. V. Taylor; Vice-Pres. and Mgr., F. S. Granger; Secy., W. J. M. Cox; Treas., Judd Smith; Attorney, H. P. Brown. Noted on Dec. 12 and Feb. 6.

## LIGHT AND POWER PLANTS.

*(* denotes that this work is advertised in Engineering News.)*

LEWISTON, ME.—E. D. Reed, Gen. Mgr. of the Lewiston, Augusta & Waterville Street Ry. Co., advises us that the company intends to erect two sub-stations, to be located at Monmouth and Vassalboro, Me. The plans have not eben completed. The contract for electrical equipment has been let to the GENERAL ELECTRIC CO., Schenectady, N. Y.

NEW YORK, N. Y.—Bids were asked until 11 a. m., Feb. 24, by C. B. J. Snyder, Supt. School Bldgs., Bd. of Education, for repairs to electric equipment in Public School No. 109, on the southerly side of Dumont Ave., between Sackman and Powell Sts., Boro. of Brooklyn.

FORT COVINGTON, N.Y.—We are officially advised that the Fort Covington Light, Heat & Power Co. is contemplating replacing its present dam with a new one. No steps towards construction have been taken. W. L. H. Keefe is Mgr.

BATH, N. Y.—The Citizens' Electric Service Co. proposes to construct an electric light plant to supply electricity in Bath, Kenoro and Avoca. It is estimated to cost $75,000. E. J. G. Tower is Pres.

RADFORD, VA.—Bids are asked until March 1, for incandescent and arc lights for electricity and gas. J. C. Bird is Clerk of Council, East Radford.

LYNCHBURG, VA.—The Lynchburg Traction & Light Co. is contemplating making additions to the equipment of its plant, and will install a 1,500-KW. turbine, 900-HP. boiler and one 750-KW. rotary converter. R. D. Apperson is Mgr.

NEWBERN, N. C.—The city has awarded contract for enlarging electric-light plant to FORT WAYNE ELECTRIC WORKS, Fort Wayne, Ind. C. F. Watson is Mgr.

MACON, GA.—The Bibb Power Co. has changed its name to Central Georgia Power Co., and plans to fully develop the various water-power properties it owns and controls on the Oconee, Ocmulgee and Flint rivers and elsewhere in Georgia. Its eventual development is estimated at between 100,000 and 150,000 HP., which will be transmitted by electricity to manufacturing, lighting and other plants in numerous cities throughout district referred to, including Macon, Griffin, Barnesville, Forsyth, Jackson, Flovilla, Fort Valley, Montezuma, Thomaston, Milledgeville, Sparta, Greensboro and others. First development will be on Ocmulgee River, eight miles from Jackson. It has been planned by Lockwood, Greene & Co., 93 Federal St., Boston, Mass., and Greenville, S. C., and provides for high head power without canal, making storage reservoir of 3,500 acres, capable of generating 18,000 HP. on 10-hour basis. The dam will be 1,400 ft. long, constructed of concrete and masonry; power will be transmitted at 60,000 volts over transmission wires suspended from steel towers. This first development (dam, power-house, water-power and electrical machinery, transmission lines, substations, lands, etc.) is estimated to cost $1,850,000. According to the "Manufacturers' Record." The Central Georgia Power Co.'s officers are: W. J. Massee, Pres.; J. C. Walker, Vice-Pres.; and J. T. Moore, Treas. Charles F. Howe, Grand Bldg., Macon, is Ch. Engr.

LECOMPTE, LA.—Bids are asked until April 7 by the Town of Lecompte for constructing an electric plant operated by steam, to cost $10,000. W. H. Jones is Clerk; Baldwin Wood, of New Orleans, is Engr.

KNOXVILLE, TENN.—The French Broad River Power Co. plans to develop water power on French Broad River and transmit electricity to Knoxville and to nearby towns for light and power purposes. The company has secured property and water power rights on French Broad River and proposes to build 30 to 35-ft. dam and water power plant. The site has been surveyed and it is understood that about 38,000 HP. is available. W. A. Boyce and associates contemplate petitioning city for franchise to supply Knoxville.

NASHVILLE, TENN.—B. J. Hodge, Bldg. Inspector, will prepare plans for a brick addition to the power-house of the municipal electric light plant.

LOUISVILLE, KY.—The Kentucky Heating & Lighting Co. awarded contract to F. A. CLEGG & CO. for erection of proposed electric power plant.

CUYAHOGA FALLS, OHIO.—The Falls Rivet & Machine Co., has been granted a franchise by the City Council and probably will erect a power plant here. Edwin Seedhouse is Pres.

PARKMAN, OHIO.—The Middlefield "Times" states that the Peerless Electric Co., of Warren, Ohio, will establish an electric plant here and will build a dam with a fall of 90 ft. E. W. Gilmer, Secy. and Treas., has been making investigations of the water power along the Mahoning River, resulting in the acquirement of the Lowry Mill on the East Branch, the Porter Mill on the West Branch, both at Newton Falls, and the Klingensmith Mill at Leavittsburg. Power houses equipped with water wheels, governors and electric machinery will be located at each dam. Engineers have been at work running levels, gaging the flow of the stream, etc., so that the company is now about ready to proceed with full development of the properties.

DECKER, IND.—We are officially advised that the Hydro-Electric Co., of Vincennes, Ind., Eugene Rush, Pres., is preparing to develop water power on the White River near this point. H. von Schon, Consult. Engr., of Detroit, Mich., has been making surveys preparatory to the preparation of plans and specifications. The electric output is to be transmitted to nearby cities.

VERMILLION, IND.—The TERRE HAUTE, INDIANAPOLIS & EASTERN TRACTION CO. has secured a contract to light the town. G. F. Grover, Mgr., announces that improvements will be made on [illegible] lines in Terre Haute this year, the [illegible] of which is estimated at $75,000.

MOUNT VERNON, IND. [illegible] are asked by the Common Council [illegible] April 1 for lighting the streets of [illegible] with electricity for a term of ten years [illegible] beginning July 1, 1909, the street lighting [illegible] sist of 85 arc lamps of 2,[illegible] each. A franchise for commercial [illegible] ence lighting for eleven years will be [illegible] with the contract for street lighting. [illegible] City Clerk.

INDIANAPOLIS, IND.—[illegible] Citizens' Gas Co. intend [illegible] plant and are considering [illegible] the purpose. It is the [illegible] work early in the spring. [illegible] Indiana Trust Bldg., is E[illegible] in Charge.

MIDLAND, MICH.—Water [illegible] developed this season on the [illegible] near this town. The proj[illegible] ported recently by H. von [illegible] Engr., of Detroit, Mich., [illegible] the plans and specifications [illegible] quire a transmission line of [illegible] miles.

NORTH CHICAGO, ILL.—[illegible] are asked until noon, March 18, by J. [illegible] Bureau of Navigation, Navy [illegible] ington, D. C., for installing [illegible] equipment in power-house [illegible] Training Station, Great Lakes [illegible] Chicago, Ill.

EAU CLAIRE, WIS.—We are advised by William Danforth, City Engr., that the city asked for bids for either gas or electric lighting for five or ten years, to be submitted Jan. 15, but bids were returned unopened and the Committee on Lighting was directed to change the specifications.

MILWAUKEE, WIS.—Kirchoff & Rose, Archs., 201 Grand Ave., Milwaukee, are preparing plans for a power-house for the Continental Realty Co., to cost about $50,000.

IOLA, KAN.—The Department of Public Utilities is contemplating extending the lighting circuits of the municipal electric light plant to the residence portion of the city. N. E. Stone is Ch. Electrician.

MARBLE FALLS, TEX.—Contract for construction of dam on the Colorado River has been let to the GRANITE MFG. CO., North Texas Bldg., Dallas, Tex. The dam will be built of marble, about 1,100 ft. long, adaptable for 36-ft. rise and develop maximum of 15,000 HP. for transmision by electricity to lighting, manufacturing and power plants within a radius of 150 miles. John W. Maxcy, of Houston, Tex., is Engr.-in-Charge.

CORPUS CHRISTI, TEX.—Press reports state that C. H. Pattison, Union Gas & Traction Co., Bryant Bldg., Kansas City, Mo., contemplates establishing a gas plant here to cost $75,000.

ARDMORE, OKLA.—The Ardmore Ice, Light & Power Co. contemplates extensive additions and improvements to its plant, which will involve an expenditure of from $40,000 to $50,000. An addition will be erected to the power house, an 800-HP. engine and a 175-KW. generator installed. H. E. Foster is Mgr., Ardmore.

ST. JOHNS, ORE.—Goodrich & Goodrich, Archs. and Consult. Engrs., Fenton Bldg., Portland, Ore., are preparing plans and specifications for a building, 32 × 70 ft., for the St. Johns Gas, Light & Heating Co. This building will be of either steel or brick, with steel trusses, corrugated iron roof and fireproof. It will contain a gas generator room, superheater, scrubbers, purifiers, engines, exhausters, etc. There will be one gas holder of 20,000 cu. ft. capacity, with a diameter of 42 ft.; one relief holder of 4,000 cu. ft. capacity, with a 25,000-gal. capacity. About five miles of mains will be installed. The approximate cost will be $40,000.

SAN FRANCISCO, CAL.—The Pacific Gas & Electric Co. will spend $3,000,000 of the new bond issue on improvements, it is stated. John A. Britton, San Francisco, is Gen. Mgr.

SAN BERNARDINO, CAL.—The Government has granted A. E. Poole water-power rights, 2½ miles long in the San Bernardino forest for the purpose of developing electrical energy. The plants will be erected within the watershed of the San Jacinto Mountains. One of the power plants will be erected at Palm Springs on the desert in Riverside County.

*LOS ANGELES, CAL.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., March 17, for installation of a conduit and electric wiring system for the U. S. court-house, post-office, etc., building at Los Angeles.

COEUR D'ALENE, IDAHO.—The Rimrock Water, Light & Power Co., recently incorporated, has elected the following officers: George W. Mason, Pres. and Gen. Mgr.; P. J. Scallon, First Vice-Pres.; C. W. Craik, Second Vice-Pres.; S. G. Sargent, Treas.; W. W. Leeper, Secy. The company is capitalized at $150,000 and has a number of springs near Garwood, a station about 25 miles north of Coeur d'Alene. These springs are known as the Rimrock springs and come from the base of a large mountain. The company intends to develop these springs by tunnels and centralizing the supply in a large reservoir. They expect to obtain a permanent flow large enough to supply the wants of Coeur d'Alene and all the farming territory between Garwood and this city.

MONTREAL, QUE.—The Trustees of McGill University are considering the question of installing an independent light, heat and power plant at the university. W. Peterson is Principal.

VANCOUVER, B. C.—The British Canadian Pulp, Wood & Paper Co. will call for bids at once for the development of 5,000 HP. on Rainy River opposite Gambier Island. Col. Tracy, 313 Cordova St., is interested.

PANAMA.—Bids were received by the Isthmian Canal Commission, Washington, D. C., on Feb. 6 for equipment and power plant in connection with construction of the Gatun dam. Full details are given in this issue under U. S. Possessions and Cuba.

## BRIDGES.

LYNN, MASS.—DAVID J. SHEEHAN has been awarded the contract by the Board Public Works for the construction of the Little River bridge.

BOSTON, MASS.—Plans are being considered for the construction of a bridge at Washington St. William Jackson is City Engr.

UNION VILLAGE (Woonsocket post-office), R. I.—The New York, New Haven & Hartford R. R. Co. will have the bridge at Union Village rebuilt. W. H. Moore, New Haven, Engr. of Bridges.

BUFFALO, N. Y.—We are officially advised that the following bids were received on Jan. 29 by the Public Works department for the construction of the superstructure of a plate girder foot bridge, two-span, 92 ft. long, 8 ft. wide, with capacity of 100 lbs. per sq. ft.: Buffalo Structural Steel Co., Dart and Letchworth Sts., Buffalo, $5,164; George Hodgg Structural Co., 22 Builders' Exchange, Buffalo, $5,497; American Bridge Co., 42 Broadway, New York, $5,490; Charles F. Ernst's Sons, 75 Lathrop St., Buffalo, $6,479; New Jersey-West Virginia Bridge Co., $7,258. Francis G. Ward is Comr. Pub. Wks. C. M. Morse is Deputy Engr. Comr.

NEW YORK, N. Y.—The following bids were received by James W. Stevenson, Comr. Bridges, for the construction of additional girder supports for the main towers of the Williamsburg (new East River) Bridge over the East River, between the Boroughs of Manhattan and Brooklyn: E. H. Kuhne & Co., 174 Fourth Ave., New York, $47,140; Cooper & Evans Co., 220 Broadway, New York, $48,200; McHarg-Barton Co., 299 Broadway, New York, $44,400; Snare & Triest Co., 143 Liberty St., New York, $44,600.

CHESTER, PA.—Bids will soon be asked by the Commissioners of Chester County for the construction of a bridge over Muddy Run, in Uwchland township, and a foot-bridge over Brandywine Creek, Dowingtown.

SCRANTON, PA.—The City Engineer has been directed to prepare plans for the construction of a foot-bridge at the Seventh Ave. crossing of the Bloomsburg division of the Delaware, Lackawanna & Western R. R.

CONOWINGO, MD.—The Conowingo Bridge Co. has been incorporated by Charles A. Andrew, Edward M. Allen, Hugh A. Jones, Omar D. Crothers and William McGuigan to rebuild the bridge across Susquehanna River. The company contemplates issuing $40,000 of bonds to repair damage.

NORFOLK, VA.—Plans have been submitted by J. O. Wiggs, 20 Pendleton St., to the Board of Control, for the construction of a bridge from Norfolk to Berkley ward.

FT. BARRANCAS, FLA.—Specifications for rebuilding the bridge over the Bayou Grande are on file at the office of Engineering News, New York. Bids are asked until Feb. 20.

HATTIESBURG, MISS.—The City Council has adopted report of J. H. Putnam, City Engr., approving plans and specifications as submitted by R. E. Lee and J. A. Frazier for construction of three reinforced concrete bridges across Gordon Creek. Estimated cost, $10,000. LEE & FRAZIER have been awarded the contract.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of Commissioners of Mahoning County, until 11 a. m., Feb. 17, for a creosoted wood block floor and steel joists on the Lanterman Falls bridge and for cleaning and painting the Market St. bridge. Will B. Jones is County Audr.

CLEVELAND, OHIO.—Plans for the construction of a bridge over Euclid Creek at St. Clair Ave. were approved on Jan. 29 by the County Commissioners. The plans provide for a structure 52 ft. wide, 80 ft. long, with a span of 40 ft. Estimated cost, $15,000. Julius C. Dorn is Clk. Comrs.

All bids for the construction of the ten bridges to be constructed in the county were rejected on Jan. 29 by the County Commissioners.

DAYTON, OHIO.—JACOB GABLERS' SONS were awarded the contract on Jan. 30 by the County Commissioners for the construction of the substructure of the Barr Station concrete bridge on the Xenia pike, at 5.30 per cu. yd.

MECHANICSBURG, OHIO.—The County Commissioners on Feb. 3 authorized the County Surveyor to prepare plans and specifications for the reconstruction of the bridge over Darby Creek, Mechanicsburg.

INDIANAPOLIS, IND.—An issue of $400,000 of bridge bonds has been authorized by the Marion County Council.

CARLINVILLE, ILL.—H. M. MINTON has been awarded the contract for the construction of a 16-ft. steel bridge north of this city.

METROPOLIS, ILL.—The recently-incorporated Paducah Northern R. R. Co. will build a bridge across the Ohio River at Metropolis. For details see under Railways—"Paducah Northern," Feb. 6.

ROCKFORD, ILL.—The Council has decided to ask for bids for the construction of concrete abutments for the Main St. bridge, to be built strong enough to support a steel structure to be erected upon it. Address City Clerk.

PEKIN, ILL.—All bids for repairing the Hodgson bridge in Elm Grove Township have been rejected by the Bridge Committee of the Board of Supervisors. New bids are asked until Feb. 20.

EAU CLAIRE, WIS.—Bids are asked until March 4 by the City Council for the construction of a bridge and movable dam to be built across the Chippewa River. William Danforth is City Engr. Lang & McAnulty, Eau Claire, are Design. and Contracting Engrs. Estimated cost, $60,000.

LINCOLN, NEB.—Bids are asked until 2 p. m., Feb. 24, by W. L. Dawson, County Clk., for constructing all bridges that may be ordered in Lancaster County one year from date of contract.

DENVER, COLO.—Representatives of the Union Pacific, Colorado & Southern, Chicago, Burlington & Quincy, Denver, Northwestern & Pacific railroad companies signed an agreement on Jan. 29 to construct a viaduct on 20th St. Estimated cost, $450,000. W. T. Powell, Denver, is Supt. B. & B., Colorado & Southern Ry. Co.

SILT, COLO.—We are officially advised that the following were the lowest bidders on Feb. 3 for the construction of a 252 ft. span bridge with concrete abutments across the Grand River near here: Wooden joists and concrete abutments: M. J. Patterson, $13,565 or $13,050, concrete abutments, own design; Midland Bridge Co., $13,908. Steel joists and concrete abutments: C. G. Sheely, $15,517; M. J. Patterson, $15,670 or $15,155 concrete abutments, own design. Wooden joists and tubular piers: M. J. Patterson Bridge Co., $12,030; Joliet Bridge & Iron Co., Joliet, Ill., $12,440. Steel joists and tubular piers: C. G. Sheely, $13,339; M. J. Patterson, $14,135. T. W. Jaycox, Denver, Colo., is State Engr.

TACOMA, WASH.—Owen Woods, Comr. Pub. Wks., was instructed on Jan. 29 by the Council, to prepare plans and estimates for four concrete bridges. Estimated cost, between $50,000 and $75,000.

PORTLAND, ORE.—New bids will probably be asked by the Executive Board for the construction of the reinforced concrete bridge over Sullivan's Gulch.

QUINCY, CAL.—Bids are asked by the Board of Supervisors, Plumas County, until 10 a. m., March 4, for the construction of the following steel bridges in the county: Bridge across Spanish Creek near Spanish Ranch, known as the "Spanish Ranch bridge"; bridge across Spanish Creek near Quincy, known as the "Spanish Creek bridge"; bridge across Indian Creek near Crescent Mills known as the "Arlington bridge"; bridge across Indian Creek near Flournoy's known as the "Flournoy's bridge"; bridge across Middle Fork of Feather River near Bates Place in Sierra Valley, known as the "Marble Lane bridge"; bridge across Wolf Creek near Greenville, known as the "Wolf Creek bridge"; two steel approaches to the present steel bridge across Rabbit Creek near La Porte, known as the "La Porte bridge". Each bridge is to be bid on separately. H. P. McBeth is Clk. Bd.

LEWISTON, IDAHO.—Bids are asked until 10 a. m., Feb. 18, by the Commissioners of Nez Perce County for the construction of a bridge across Cottonwood Creek. W. L. Clifford is Clk. Comrs.

FREDERICTON, N. B.—Bids are asked until Feb. 24, by C. H. La Billois, Ch. Comr. Pub. Wks., for (a) the metal superstructure for the St. Jacques bridge, two span, each 160 ft.; (b) the metal superstructure for the Black River Mouth bridge at Wellington, three span, each 63 ft.; (c) the metal superstructure for the Eel River Bar bridge at Dalhousie, three spans, each 117 ft.; (d) Broadway bridge at Grand Falls, two spans, each span 86 ft.

## BUILDINGS.

*(* denotes that this work is advertised in Engineering News.)*

BURLINGTON, VT.—The CHAMPLAIN MFG. CO. has the contract for erecting two additions to the Mary Fletcher Hospital. Estimated cost, $100,000.

WILLIAMSTOWN, MASS.—Robins & Oakman, 27 East 22d St., New York, are taking estimates for a 3-story dormitory for Williams College, Williamstown. Cost, $75,000.

PROVIDENCE, R. I.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to the SANITARY DEVICES MFG. CO., 11 East 24th St., New York, contract for installing a vacuum cleaning system in the Providence, R. I., post-office at $3,610; time, Oct. 1, 1908.

WILLIMANTIC, CONN.—Competitive plans will be received by Thomas D. Bradstreet, State Comptroller, Hartford, until Feb. 15, for a model school building in connection with the normal building, at Willimantic, not to exceed $50,000, including heating plant and furnishings.

MOUNT VERNON, N. Y.—Bids are asked until Feb. 17, by the Board of Education, Mount Vernon, for constructing a 3-story brick school to contain 16 rooms and an assembly hall. Cost, $100,000. Albro & Lindeburg, 481 Fifth Ave., New York, are Archs.

AUBURN, N. Y.—H. Van Buren Magonigle, 7 West 38th St., New York, has completed plans for a 3-story addition to high and grammar school building for the Board of Education, Auburn. The building will cost $125,000.

NYACK, N. Y.—Louis C. Maurer, Arch., 22 East 21st St., New York, N. Y., has nearly completed plans and will receive bids about Feb. 24 for a 5-story hotel, at Nyack, for Henry I. Lippe, care architect. Cost, $60,000.

NEW YORK, N. Y.—We are officially advised that contracts will be let in about a month for constructing a 7-story dwelling at 47 East 52d St., for William K. Vanderbilt, 660 Fifth Ave. Warren & Wetmore, 3 East 33d St., are Archs.

The Domestic Realty Co. will erect an 8-story brick loft, 74 × 85.1 ft., at 121 to 125 West 17th St., from plans by Ditmars & Brite, at a cost of $225,000.

NEW YORK, N. Y.—Maximilian Zipkes, Arch., 147 Fourth Ave., advises us that it is probable contracts will be let early in March for construction of a 6-story brick and stone tenement, 39.10 × 100.11 ft. on the south side of 111th St., near Lexington Ave. The building will cost $50,000 and will be erected by Louis E. Kleban, 1572 Washington Ave.

We are advised by R. F. Almirall, 51 Chambers St., that he is preparing plans for a 5-story brick and stone home for nurses, to be erected by the city on 136th St., east of Lenox Ave. The building will be 135.4 × 33.2 ft., and will cost $130,000. Construction will not begin for some time. Dr. John W. Brannan is Pres. Trustees, Bellevue and Allied Hospitals.

NEW YORK, N. Y.—We are advised by Albert E. Parfitt, 26 Court St., Brooklyn, that estimates will be received in about three weeks for constructing a 3-story brick parish school building for the St. Augustine's Roman Catholic congregation, Rev. W. McCarthy, Pastor. Cost, $175,000.

York & Sawyer, 156 Fifth Ave., New York, have been selected to prepare plans for a hospital and laboratory at the Rockefeller Institute for Medical Research, L. E. Holt Secy., East River and 66th St. Cost, $200,000.

NEW YORK, N. Y.—George W. Conable, Arch., Jamaica, will receive estimates about Feb. 15 for a church for the Trinity Lutheran Congregation, Rev. Ernst Brennecke, Pastor, New York. Cost, $100,000.

John E. Kerby, Arch., 481 Fifth Ave., advises us that he is preparing new plans for a 3-story and basement school building for the St. Luke's Roman Catholic congregation, Rev. John J. Boyle, Pastor. The building will be built of brick and the present plans call for fireproof construction. Estimates will be received in about one week. Cost, $70,000.

BUFFALO, N. Y.—We are officially advised that the lowest bids opened Feb. 6 for the St. Casimir fireproof school building were: Mason work, Morris & Allan, Inc., 302 Ellicott Sq., Buffalo; carpenter work, Theo. Kaltanowski, Buffalo; structural steel, George Kellogg Structural Co., Court and Pearl Sts., Buffalo. The building will cost, $60,000. W. H. Zawadzki, 1123 Broadway, Buffalo, is Arch.

HACKENSACK, N. J.—Robert C. Dixon, 148 Bulls Ferry Road, Weehawken, N. J., has completed plans for a 2-story and basement brick school building, 62 × 51 ft., for the Board of Education, Hackensack. Gas and electric fixtures, water closets, lavatories and steam heat will be installed. Cost, $75,000.

PHILADELPHIA, PA.—E. A. Wilson, Land Title Bldg., has plans for a 4-story flat building to be built at 45th and Chestnut Sts. It will be built of brick with stone trimmings, slag roof, open plumbing. Estimated cost, $120,000.

Plans have been prepared by Watson & Huckel, 1211 Walnut St., for a 3-story stone flat building, 60 × 150 ft., to be erected at Johnson and Cliveden Sts., for G. W. Simpson. Cost, $100,000.

EASTON, PA.—GEORGE W. BEARD & CO., Colonial Trust Bldg., Reading, Pa., have been awarded the contract for constructing a 7-story brick, stone and steel bank and office building, 158 × 30 ft., for the Northampton National Bank, Easton. It will cost $250,000. Abner A. Ritcher is Arch., Colonial Trust Bldg., Reading, Pa.

PHILADELPHIA, PA.—Henry Howson, Chn. Bldg. Com., Franklin Institute, writes us that as yet the architect for the proposed new home for the Franklin Institute has not been selected, nor have all the necessary funds been subscribed, but at the present it is proposed to erect the building on the Parkway at 16th and Arch Sts. An elevation has been made showing the type of building desired, but this design may be entrely changed when actual work is started.

George B. Wilson, Pennsylvania Bldg., has awarded a contract to the WILLIAM STEELE & SONS CO., 1600 Arch St., to build a store building on the lot he owns at 1528 Chestnut St. The plans call for a reinforced concrete and terra cotta structure, with an ornate front covering the entire lot, measuring 38.5 × 235 ft., extending to Sansom St. At first only a 2-story building will be erected, but the walls will be sufficiently strong to carry three additional stories. The cost will be $100,000. The lot is now occupied by the old Hollingsworth mansion. It is situated between the Weightman and Perry buildings and is assessed for $275,000.

Henry D. Dagit, 435 Chestnut St., Arch., has completed plans for the superstructure of St. Francis de Sales' Roman Catholic Church to be built at the corner of 47th St. and Springfield Ave. It will be of granite exterior, with the interior lined with colored bricks, laid in patterns. The cost will be $150,000. Those estimating on the plans are Melody & Keating, Bailey Bldg., William R. Dougherty, 1604 Sansom St., and Jacob Myers & Sons, Witherspoon Bldg.

R. C. Loos, 107 Chestnut St., has been commissioned to prepare plans for an apartment house to be erected at 39th St. and Lancaster Ave. for W. H. Walker. It will be five stories high, of brick and stone construction, and will be finished with elaborate interior fittings. The cost will be over $150,000.

PHILADELPHIA, PA.—Permits have been granted JOHN R. WIGGINS & CO., Heed Bldg., for the erection of three new buildings for the Municipal Hospital at Second and Luzerne Sts. The work, which will cost $159,000, includes a laundry, a dining-room and kitchen, and a stable and garage buildings.

WASHINGTON, D. C.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to J. E. & A. L. PENNOCK, Land Title Bldg., Philadelphia, contract for the construction of a hygienic laboratory, Washington, at $64,900; May 1, 1909.

WASHINGTON, D. C.—Bids are asked by Albert Kelsey and Paul Cret, Weightman Bldg., Philadelphia, Archs., for a fireproof 3-story marble and steel Peace Memorial Building, 160 × 180 ft., for the Bureau of American Republics, Washington, D. C. Cost, $600,000. John Barrett is Dir. of Bureau.

ELKINS, W. VA.—Bids are asked until noon, April 8, by John A. Bock, Chn. Com., Farmington, W. Va., for erecting a 3-story building, 128 × 149 ft., for the Odd Fellows' State Home, at Elkins. It will be built of press brick, with stone trimmings. Alexander & Chaplin, New Martinsville, W. Va., are Archs. Cost, $75,000.

ATLANTA, GA.—It is stated that B. A. Pugin & Son, Archs., 97½ Peachtree St., Atlanta, have prepared plans for erection of apartment house to have eight stories, and to be 75 × 92 ft., brick and stone. It will contain 16 apartments of seven rooms each, freight and passenger elevators, steam heat. Cost, $95,000.

*KEY WEST, FLA.—Bids are asked until 11 a. m., March 12, by Capt. Conrad H. Lanza, Constr. Q. M., U. S. A., Key West, for furnishing a steam boiler of 125 HP., with accessories.

*PENSACOLA, FLA.—Bids are asked until 3 p. m., March 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for constructing quarters and hospital buildings at Santa Rosa Quarantine Station, Pensacola.

MARSHALL (Ruleville post-office), MISS.—The managers of the Missouri Colony for Feeble-minded and Epileptics have awarded contract for erection of proposed school to D. E. MARSHALL & CO., 2011 East Tenth St., Kansas City, Mo. The building will be constructed of concrete and will have electric lighting. Cost, $70,000. John H. Felt, New Shukert Bldg., Kansas City, Mo., is Arch.

CHATTANOOGA, TENN.—The City has awarded sub-contracts for erection of City Hall, as follows: JAMES DUTTON for stone work, requiring about 25,000 square feet of stone; JAMES SAFFARAN for brick work, estimated to require about 1,000,000 brick; TOM SNOW ROOFING & SUPPLY CO., for roofing; JOHN L. GRAHAM for plastering, and the CONVERSE BRIDGE CO. for steel. Joseph Trimby, News Bldg., is general contractor, and R. H. Hunt, James Bldg., Arch.

LORAIN, OHIO.—W. P. Ginther, Arch., Arcade Bldg., Akron, has been retained to prepare plans for a church for the Polish Catholic congregation, Rev. Father Ruskowsky, Pastor, Lorain. Cost, $80,000.

AKRON, OHIO.—Charles Henry & Son, East Market St., are preparing plans and will receive bids after Feb. 15 for a 1-story and basement church, 90 × 200 ft., for the First Congregational Society, Rev. H. S. MacAyeal, Pastor. The building will be press brick with stone trimmings, slate roof, galvanized iron cornice and skylight. Cost, $90,000.

EAST LIVERPOOL, OHIO.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., received the following bids for the erection of the U. S. post-office at East Liverpool: Harvey McHenry, East Liverpool, $96,799; Constable Bros. Co., Erie, Pa., $97,880; W. H. Fissell Co., 1133 Broadway, New York, $99,973; John C. Devine, Alliance, Ohio, $94,322; Simon Small & Son, Mansfield, Ohio, $98,808; Edward Henry, Tipton, Ohio, $88,000; John Unkifer, Minerva, Ohio, $79,400; Ambrose B. Stannard, St. James Bldg., New York City, $92,945; John Grant & Son Co., Cleveland, Ohio, $88,947.

TOLEDO, OHIO.—Bids are asked until noon, Feb. 29, by the Board of Education, Toledo, for constructing an 8-room addition to the Fulton St. school. L. I. Donat is Clerk Bd. Education.

CLEVELAND, OHIO.—Bids are asked until noon, Feb. 25, by A. R. Callów, Secy. Bd. Pub. Service, for the mason and steel work for the superstructure for the West Side Market House, West 25th St. and Lorain Ave.

GRAND RAPIDS, MICH. — Press reports state that the Grand Trunk Ry. System intends to build a depot at Fuller Station (Grand Trunk Junction) to cost $200,000. Work will be started in the spring. H. G. Kelley, Ch. Engr., Montreal, Que.

DETROIT, MICH.—The lowest bid received by the Park Commissioner for consfructing the proposed bath house on Belle Isle was $90,000. Appropriation, $35,000. Stratton & Baldwin, Union Trust Bldg., are Archs. Noted on Feb. 6.

CHICAGO, ILL.—Huehl & Schmid, Archs., 165 Randolph St., awarded mason contract to J. W. SNYDER, 160 Washington St., for a 10-story mercantile building, 60 × 100 ft., to be built at 286-290 Fifth Ave., for Washington Porter, 77 Jackson Boulevard. Cost, $150,000.

LA CROSSE, WIS.—Bids are asked by the State Board of Normal Regents, Madison, until Feb. 26 for the erection of a normal school building at La Crosse. Cost, $200,000. J. A. Peacock is Pres., Oconomowoc, Wis.; Van Ryn & De Gelleke are Archs., 211 Grand Ave., Milwaukee.

MILWAUKEE, WIS.—The Board of Education has let mason contract to R. HOEPPNER, 2602 Kilbourne Ave.; carpenter work to A. HOLSTEIN; steam heat to MUELLER CO., Reed and Florida Sts., and plumbing to C. LINDNER, 2718 Vliet St., for a 2-story press brick school building, 153 × 160 ft., in the Tenth District. Cost, $72,000.

MADISON, WIS.—Bids are asked by Lew F. Porter, Secy. Wisconsin Capitol Comn., until noon, Feb. 24, for the steel work of the east wing of the Capitol now building.

RHINELANDER, WIS.—Sketch plans will be received by the Building Committee until 2 p. m., March 23, for a brick or stone courthouse for Oneida County, to cost not more than $100,000. It is to be two stories high, containing on first floor six office rooms and four fireproof vaults not less than 20 × 20 ft. inside measure; on second floor, one Circuit Court room, one County Board room with fireproof vault in connection, one office with fireproof vault in connection, one judges' room, two jury rooms, one library and one attorneys' room. Basement will contain steam heating plant, fuel, storage and assembly room for public meetings. Arthur Taylor is Chn.

DES MOINES, IOWA.—Plans are being prepared by Proudfoot & Bird, Crocker Bldg., for a 4-story city hall for this city. Cost, $350,000.

IOWA CITY, IOWA.—Proudfoot & Bird, Archs., Crocker Bldg., Des Moines, have completed plans for the Law Building for the State University, Iowa City. It will cost about $100,000.

MINNEAPOLIS, MINN.—H. W. Jones, Lumber Exchange Bldg., is preparing plans for a 1-story mortuary chapel and crematory, 50 × 70 ft., at the Lakewood Cemetery. Granite and brick, oak finish and maple floors are to be used. Cost, $75,000.

Contract for constructing a 5-story warehouse for Gorman, Lord & Co., 116 South Washington Ave., has been let to JOHN WONDER, Lumber Exchange Bldg., Minneapolis. Estimated cost, $75,000.

ST. PAUL, MINN.—The Theodore Hamm Brewing Co. has selected Buechner & Orth, Archs., Manhattan Bldg., to prepare plans for a 4-story department store building, on Seventh St. near Robert St. The building will be built of brick, stone, steel, terra cotta and reinforced concrete. Cost, $250,000.

LA MOURE, N. DAK.—Buechner & Orth, Manhattan Bldg., St. Paul, Minn., have completed plans for a 2-story court-house to be erected at La Moure, for La Moure County. Cost, $100,000.

CARTHAGE, S. DAK.—Bids are asked until 6 p. m., March 16, by the Carthage Building Co. for erection of a brick or cement block business block 50 × 85 ft., two stories and basement, including all labor and material. B. R. Corkins is Secy.; E. L. Barber is Arch., Denison, Iowa.

MITCHELL, S. DAK.—The following bids were received on Jan. 22 by James Knox Taylor, Superv. Arch., Treasury Department, Washington, D. C., for construction, including plumbing, heating, gas piping, electric conduits and wiring of the U. S. post-office, at Mitchell: Moore & Danner, Kokomo, Ind., $78,940; Newman & Hoy, Chamber of Commerce Bldg., St. Paul, Minn., $91,941; J. H. Wiese, South Omaha, Neb., $81,124; J. W. Miller, St. Paul, $83,724; Bartlett & Kling, Inc., Cedar Rapids, Ia., $87,200; Fred Djodstrup, Mitchell, $89,000.

ST. LOUIS, MO.—Isaac S. Taylor, Arch., Mercantile Bldg., has completed plans for a 4 and 5-story municipal building, 360 × 242 ft., to be erected at 13th and Market Sts., for the city. It will be constructed of brick, stone and reinforced concrete, architectural and structural iron and steel. Cost, $2,000,000. Bids will be received soon by the Board of Public Improvements.

Milligan & Wray, Chemical Bldg., have prepared plans for additions to insane asylum on Arsenal St., for the Board of Public Improvements, W. B. Dryden, Secy. The structure will have five stories, 469 × 212 ft. and two wings, and will be built of brick, stone and reinforced concrete. Cost, $600,000.

KANSAS CITY, MO.—William J. Brinkmann, 86 Metropolitan Block, Chicago, Ill., has been retained to design an educational building for the Christian Brothers. Estimated cost, $75,000.

Howe & Holt, 313 East Tenth St., have plans ready for figures for a 3-story brick and stone hospital building, 60 × 225 ft., to be built at 29th and Main Sts., for the Sisters of St. Mary. Estimated cost, $250,000.

ALBUQUERQUE, N. MEX.—The contract for the construction of the Albuquerque public building has been awarded by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., to A. W. ANSON, of Albuquerque, at $92,000 less for alternates B C D and G, $4,505. Time, July 1, 1909.

LOS ANGELES, CAL.—Bids are asked until 3 p. m., March 18, by James Knox Taylor, Superv. Arch., for installing a hot water heating system and ventilating apparatus for the U. S. post-office building at Los Angeles.

SAN DIEGO, CAL.—Plans have been completed by S. G. Kennedy, Arch., Waldeck Block, for a reinforced concrete apartment house to cost $500,000. The structure is to be six stories in height above the basement and will contain 432 suites of four rooms each.

VANCOUVER, B. C.—We are officially advised that a wing will be added to the Vancouver General Hospital, which will cost $90,000, equipment, $20,000. It will be three stories high, 50 × 120 ft., of granite construction. Plans for building construction have not been completed, but heating and lighting have been provided for. Grant & Henderson, Mackinnon Bldg., are Archs.

## WATER SUPPLY—IRRIGATION.

*(* denotes that this work is advertised in Engineering News.)*

MARION, MASS.—The following bids were received on Feb. 3 for water-works material: Cast-iron water pipe—Lynchburg Foundry Co., Lynchburg, Va., $20,021; U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, New York City, $20,786; Fred. A. Houdlette, 93 Broad St., Boston, Mass., $21,387; Warren Foundry & Machine Co., 170 Broadway, New York City, $21,387; Charles Miller, Son & Co., Utica, N. Y., $21,485; Donaldson Iron Co., Emaus, Pa., $22,025; John Fox & Co., 253 Broadway, New York City, $22,111; R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., $22,692; American Cast Iron Pipe Co., Birmingham, Ala., $23,110. Special castings—Builders' Iron Foundry Co., Providence, R. I., $710; Charles Miller, Son & Co., Utica, N. Y., $825; American Cast Iron Pipe Co., Birmingham, Ala., $50 per ton; Lynchburg Foundry Co., Lynchburg, Va., $51; Frederick A. Houdlette & Son, 93 Broad St., Boston, Mass., $52.50; Donaldson Iron Co., Emaus, Pa., $53; John Fox & Co., 253 Broadway, New York City, $57.50. Valves with boxes and hydrants—Kennedy Valve Manufacturing Co., 57 Beekman St., New York City, $2,382; The Fairbanks Co., 42 Pearl St., Boston, Mass., $2,423; RENSSELAER MANUFACTURING CO., Troy, N. Y., $2,475 (awarded contract); Chapman Valve Manufacturing Co., Indian Orchard, Mass., $2,492; Coffin Valve Co., Dorchester, Mass., $2,530; Eddy Valve Co., Waterford, N. Y., $2,586; Ludlow Valve Manufacturing Co., Troy, N. Y., $2,647; Darling Pump Manufacturing Co., Williamsport, Pa., $2,735.

*SPRINGFIELD, MASS.—Bids are asked by the Board of Water Commissioners, 43 Bridge St., Springfield, until noon, Feb. 24, for cast-iron water pipe and special castings, all pipe to conform to the New England Water-Works Association specifications. E. E. Lochridge is Ch. Engr. Comrs.

SYRACUSE, N. Y.—Bids are asked until Feb. 17 by the Board of Contract and Supply for furnishing water pipe for the extension of the water mains.

*YONKERS, N. Y.—We are officially advised that R. D. WOOD & CO. were awarded the contract on Feb. 3 by the Board of Contract and Supply for furnishing and delivering 416 tons iron pipe, at $23.90 per ton; 10 tons castings, at $53.00.

THE UNION WATER METER CO., Worcester, Mass., secured the contract for furnishing 200 ⅝-in. water meters. J. D. McIntyre is Secy. Bd. Contract and Supply.

*BREWSTER, N. Y.—We are officially advised that M. J. DRUMMOND & CO. were awarded the contract on Feb. 8 by the village for furnishing cast-iron water pipe, special castings, gates and gate boxes.

C. S. MERSICK & CO., New Haven, Conn., secured the contract for furnishing lead and gate packing. T. H. McKenzie is Engr.

SEA ISLE CITY, N. J.—The Sea Isle Water Co., may have a cement cistern constructed for the purpose of aerating the water pumped from the wells.

HARRISON, N. J.—The New Jersey Suburban Water Co. was granted permission by the Common Council on Feb. 4 to connect a water-pipe with a 36-in. main at Fourth St., to supply the Clark Thread Co., East Newark, N. J., with water.

*NEWARK, N. J.—Bids are asked by the Board of Street and Water Commissioners until 3.30 p. m., Feb. 13, for coated cast-iron water pipe and special castings. Morris R. Sherrerd is Ch. Engr. Bd.

MENDHAM, N. J.—The State Water Supply Commission has approved plans for the construction of a municipal water system by this borough.

*PHILADELPHIA, PA.—We are officially advised that the following bids were received on Jan. 30 by the Department of Public Works for (A) Contract No. 133, the construction of shelter houses for Torresdale filters, (B) Contract No. 135, boiler equipment for the Roxborough pumping station: (A) W. L. Gallagher & Co., 1332 Walnut St., Philadelphia, $34,150; B. Ketcham's Son, 1029 Brown St., Philadelphia, $25,469; John W. Emery, 1524 Sansom St., Philadelphia, $25,400; DAVID PEOPLES, 1000 Betz Bldg., Philadelphia, $23,607 (awarded contract); Mitchell Bros., 2125 Race St., Philadelphia, $25,158; Edward Fay & Son, 2066 Richmond St., Philadelphia, $23,250; Mack Paving & Construction Co., 2032 Land Title Bldg., Philadelphia, $28,700; Lynch Bros., 614 Lippincott Bldg., Philadelphia, $26,495; Henry E. Baton, 1221 Arch St., Philadelphia, $25,200; Owen J. Eyers, Heed Bldg., Philadelphia, $30,546; The Chas. McCaul Co., Tenth and Sansom Sts., Philadelphia, $25,995. (B) West End Heating & Engineering Co., 4641 Lancaster Ave., Philadelphia, $46,396; EDGEMOOR IRON CO., Edgemoor, Del., $41,375 (awarded contract, with exception of one 8 × 175-ft. chimney complete, which was awarded to the HEINE CHIMNEY CO., 79 Dearborn St., Chicago, Ill.); Heine Safety Boiler Co., 1120 Pennsylvania Bldg., Philadelphia, $44,205; The Babcock & Wilcox Co., 1110 North American Bldg., Philadelphia, $49,137; D'Olier Engineering Co., 121 South Eleventh St., $44,986; E Keeler Co., Williamsport, Pa., $47,810. George R. Stearns is Dir. Pub. Wks.

*PHILADELPHIA, PA.—Bids are asked until noon, March 3, by William R. Knight, Jr., Asst. Dir. Pub. Wks., for pumping engines for the Roxboro & Belmont pumping stations.

FLORALA, FLA.—The Council proposes to establish water system at a cost of $20,000.

JACKSON BARRACKS (New Orleans post-office), LA.—Bids are asked by the Constructing Quartermaster, 416 Hibernia Bank Bldg., New Orleans, until Feb. 14, for removing old water tank from tower and constructing a new tank, at Jackson Barracks.

NORWOOD, OHIO.—An ordinance providing $7,000 for the extension of water mains has been authorized by the Council.

WARREN, OHIO.—Riggs & Sherman, Toledo, have been engaged to submit estimates of the cost of constructing a municipal water-works system for this city.

LANCASTER, OHIO.—The State Board of Health has recommended the construction of a wall surrounding the water reservoirs and for a number of other improvements at the water works plant.

ELKHART, IND.—Bids are asked until 10 a. m., March 11, by the Board of Public Works for furnishing to the city and to the inhabitants for a period of 25 years from and after April 28, 1909, an ample supply of water, free from all impurities, for all domestic and public uses, including fire protection. T. G. Wilkinson is City Clk.

EVANSVILLE, IND.—The City Council on Feb. 3, decided to have a filtration plant constructed.

DETROIT, MICH.—Specifications for cast-iron water pipe required by the Board of Water Commissioners for 1908 are on file at office of Engineering News, New York. Bids are asked until noon, Feb. 18. Bids are also asked for gate valves, testing boxes, special castings, and corporation cocks. Benjamin F. Guiney is Secy. Bd.

ST. CLOUD, MINN.—The Council contemplates purchasing pumping machinery for the city wells.

ELLSWORTH, KAN.—WILLIAM F. HALL, Clinton, Iowa, has been awarded the contract for the construction of a water-works plant.

ST. LOUIS, MO.—The Board of Public Improvements may have a boiler plant at Bissel's Point, to cost $300,000. An ordinance appropriating $35,000 for the reconstruction of the boiler plant at the same place has been approved. The new plant will be adequate for the installation of 13 boilers, and a high-pressure system.

HUDSON, COLO.—Bids will soon be asked by the Henrylyn Irrigation District for reservoir, ditches, etc. Estimated cost, about $1,250,000. A. J. McClure, 307 McPhee Bldg., Denver, Colo., is Engr. James H. Ledgerwood is Secy. Henrylyn Irrigation District.

GRAND JUNCTION, COLO.—We are officially advised that the water system will be improved by the addition of another main from the reservoirs. Steel pipe, 12 or 14 in., will probably be used. Estimated cost, $30,000. J. F. O'Malley is City Engr.

ROSSALA, WASH.—JOSEPH BOWERMAN has been awarded the contract for the construction of a reservoir here with a capacity of 500,000 gallons.

ROSLYN, WASH.—A gravity water system will be constructed by the city, the present system being inadequate. Estimated cost, from $60,000 to $70,000.

*KLAMATH FALLS, ORE.—Specifications are on file at the office of Engineering News, New York, for the construction of the South branch canal, involving the construction of about 5½ miles of canal, and excavating and embanking about 300,000 cu. yds., mainly earth, located about ten miles southeast of Klamath Falls, Ore., Klamath project, Oregon-California. Bids are asked until 2 p. m., April 1, by the U. S. Reclamation Service, Portland, Ore.

*PORTLAND, ORE.—Bids are asked by the U. S. Reclamation Service, Portland, until 2 p. m., April 15, for the construction of Clear Lake dam and dikes located about 55 miles southeast from Klamath Falls, Klamath Project, Oregon-California. The dam requires the placing of about 54,000 cu. yds. of earth and rock fill, together with the building of necessary spillway and outlet structures. The dikes require the placing of about 25,000 cu. yds. of earth and rock fill. James Rudolph Garfield is Secy.

SAN DIEGO, CAL.—Articles of incorporation of the San Diego Mountain Water Co. were filed in the office of the County Clerk on Jan. 27. Capital stock, $5,000,000. John D. Spreckels, Laguna St. and Pacific Ave., San Francisco, is interested.

SAN FRANCISCO, CAL.—San Francisco, San Mateo, Alameda and Contra Costa counties may have a consolidated water system constructed. Estimated cost, $100,000,000.

WINNIPEG, MAN.—Contracts as follows have been awarded by the Board of Control: For furnishing 1,634 tons cast-iron water pipe, CANADA IRON & FOUNDRY CO. Fort William, Ont., $46,924; for furnishing 70 tons specials, same firm, $4,000; for furnishing 6-in. and 8-in. hydrants, CANADIAN FAIRBANKS CO., $8,437. H. N. Ruttan is City Engr.

WINNIPEG, MAN.—Competitive plans are asked by the Public Parks Board for an 80 × 120 ft. pavilion with 60-ft. tower capable of sustaining the weight of a 16,500-gallon water tank. G. Blackwood is Secy. Bd.

PRINCE ALBERT, SASK.—See under Sewerage.

## SEWERAGE.

BOSTON, MASS.—Bids are asked until noon, Feb. 17, by the Trustees of the Boston City Hospital for the construction of a sewer on the hospital grounds from the Burnham Memorial Building to the sewer in Massachusetts Ave. George H. M. Rowe is Supt.

AUBURN, N. Y.—Bids are asked until Feb. 18, by the City Clerk, for constructing sewer in Elm St. W. Thomas Wooley is City Engr.

BROOKLYN, N. Y.—GALVIN & CANTWELL have been awarded the contract for furnishing material and reconstructing sewer and appurtenances in Fifth St. between Aves. A and C, at $15,247. THE ATLANTA CONSTRUCTION CO. secured the contract for constructing sewer on Fourth St., between Aves. A and C, at $21,893.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro of Richmond, Borough Hall, St. George, New Brighton, N. Y., until noon, Feb. 25, for furnishing all the labor and materials required for constructing a temporary combined sewer, with appurtenances, in Richmond Terrace, from Harbor Road to a point about 230 ft. east of Van Pelt Ave.; in Central Ave., from a point about 710 ft. south of Erastina Place to Richmond Terrace; in Union Ave., from a point about 200 ft. south of Forest Ave. to about low water mark, with a separate sanitary outlet, thence to the pier line, all being within the district known as Sewerage District No. 18-A, in the Third Ward, Borough of Richmond, together with all work incidental thereto.

IRVINGTON, N. J.—M. D. & J. DOWD, Irvington, were awarded the contract on Feb. 4 by the Council for the construction of the Lyons Ave., storm sewer, at $15,228.

ELLWOOD CITY, PA.—R. Winthrop Pratt, Columbus, Ohio, will prepare plans for sewage purification for Ellwood City.

LAUREL, MD.—The city contemplates issuing $15,000 for the construction of sewer system.

WASHINGTON, D. C.—Bids were received as follows Feb. 7, at the office of the Commissioners of the District of Columbia for the construction of a sewer in the District: (a) Warren F. Brenizer Co., Washington, D. C.; (b) E. G. Gummel, 300 Rhode Island Ave., Washington, D. C. Ordinary excavation, (a) 66 cts.; (b) 80 cts.; sewer brick masonry, (a) $16.50; (b) $18; 24-in. diameter pipe, (a) $1.66; (b) $1.28; 18-in. diameter pipe, (a) 97 cts., (b) $1.18; 15-in. diameter pipe, (a) 81 cts., (b) $1.04; 12-in. diameter pipe, (a) 71 cts., (b) 88 cts.

The Commissioners have ordered that a trunk sewer be constructed from the intersection of Loughboro Road and Arizona Ave. through the right-of-way recently acquired through parcel 34-35, to 40th St., charged to appropriation for sewers, that the following service sewers be constr[illegible] 40th St., Northwest, betw[illegible] and Yuma St.; sewer in [illegible] Northwest, between Yum[illegible] Road; sewer in Wisconsin [illegible] between Warren St. and [illegible] sewer in Warren St. Northw[illegible] St. and Wisconsin Ave.; [illegible] Pl. Northwest, between 16[illegible] sewer in 17th St. Northwe[illegible] cent Pl. and Kalorama Roa[illegible]

ATLANTA, GA.—Bids are [illegible] m., Feb. 17, by R. M. Cla[illegible] for constructing such sewe[illegible] thorized by city for 1908.

SCRANTON, MISS.—The [illegible] authorized an issuance of $2[illegible] sewer construction and str[illegible]

CARTHAGE, OHIO.—A. C[illegible] ted plans for the constru[illegible] system. Estimated cost, $[illegible]

COLUMBUS, OHIO.—Bids [illegible] noon, Feb. 14, by R. W. [illegible] Pub. Serv., for constructing [illegible] west of Eldon Ave.

UPPER SANDUSKY, OHI[illegible] has rejected all bids for th[illegible] a sewer, known as the outl[illegible] system. Bids will be rea[illegible] Stutz is Vil. Clk.

CAMBRIDGE, OHIO.—Bid[illegible] the Board of Public Service [illegible] 29, for 670 lin. ft. of 15 and 12-in sewer pipe, 1,000 lin. ft. of 4-in. [illegible] basins and three manholes. [illegible] Pres. Bd. O. M. Hoge is City [illegible]

COLLEGE HILL (Cincinnati post-office), OHIO.—The citizens have voted $[illegible] bonds for the construction of a sewerage system.

*UPPER SANDUSKY, OHIO.—Bids are asked until noon, Feb. 27, by A. H. Strutz, Village Clerk, for construction of about 4,268 ft. main trunk vitrified pipe sewer. The sizes of pipe will range from 15 to 24 ins. The Riggs & Sherman Co., The Nasby, Toledo, Ohio, are Consult. Engrs.

*GARY, IND.—Bids are asked by the Board of Trustees until 2 p. m., March 10, for the construction of several sewers. C. O. Holmes is Clk. Board of Trustees.

*TECUMSEH, MICH.—We are officially advised that A. P. SOUTHWORTH, Adrian, Mich., was awarded the contract on Feb. 3, by the Board Trustees, for furnishing all labor and material for constructing about nine miles 6 to 15-in. pipe sewers, at $35,000. W. L. Jones is Clk. Bd. Riggs & Sherman, Toledo, are the Design. Engrs.

CARROLLTON, ILL.—Plans are being prepared by the city to install a sewer system estimated to cost $25,000.

AMES, IOWA.—The City Engineer has been directed to prepare plans for West Side sewer system.

DES MOINES, IOWA.—The Cook Construction Co. were the lowest bidders on Jan. 28 for the construction of the 32d St. sewer, at $1.40 per lin. ft.

NORTH PLATTE, NEB.—Bids are asked until 5 p. m., Feb. 18, by Hershey S. Welch, City Engr., for labor and material for constructing sewer, consisting of 4,840 ft. 10-in. pipe, 112 6 × 10-in. Y's, five 5-ft. manholes (concrete), and one flush tank (concrete). Average depth of trench, 5 to 5½ ft.

EL RENO, OKLA.—The contract for the construction of additional sewers and the enlargement and improvement of the old sewers was let by the City Council on Feb. 3 to the CONNELLY CONSTRUCTION CO., El Reno, at the following prices: Lateral sewers, $3,009; storm sewers, $5,761; sanitary sewers, $6,083.

EL RENO, OKLA.—We are officially advised that the P. F. CONLEY CONTRACTING CO. was awarded the contract on Feb. 3, by the city, for the construction of sanitary and storm sewers, the work requiring 8,269 lin. ft. 6-in., 7,229 lin. ft. 8-in., 3,585 lin. ft. 10-in., 550 lin. ft. 15-in., 2,577 lin. ft. 24-in. pipe, at $14,998. Other bids were: Charles T. Dew, Oklahoma City, Okla., $14,848; B. H. Stewart, El Reno, Okla., $16,183. R. N. Whittlesey is City Engr.

TRINIDAD, COLO.—F. O. Rays, Pueblo, Colo., is preparing plans for a sewerage system for Trinidad, estimated to cost about $35,000.

SPOKANE, WASH.—The following bids have been received by the city for the construction of the Ninth Ave. sewer from Perry St. to Napa St.: Julia V. Costello, $7,400; J. C. Broad, $7,865; G. Burgle, $6,335; Foster & Gordon, $8,630; Thomas Maloney, $7,569; Independent Asphalt Co., $8,300; Long & Smith, $7,565.

SEATTLE, WASH.—Contracts for the construction of sewers have been awarded by the Board Public Works as follows: Sewers in West 54th St., West 58th St., and West 56th St., to H. DAHLSTROM; sewer in West 53d St. to CHRISTENSEN & NELSON. R. H. Thomson is City Engr.

LOS ANGELES, CAL.—We are officially advised that the REINFORCED CONCRETE PIPE CO., Citizen's National Bank Bldg., Los Angeles, has secured the contract through Greenwell & Donlon and A. S. Bent, contractors, for 48-in. and 24-in. reinforced concrete sewer pipe, and culvert 60-in. pipe, at $6,600 and $2,500.

SACRAMENTO, CAL.—We are officially advised that the lowest bid for furnishing 36-in. and 24-in. reinforced concrete sewer pipe, has been submitted by the Clark & Henery Construction Co.

OAKLAND, CAL.—Contracts have been awarded as follows by the City Council: Sewer in East 22d St. and in 32d St., to JOHN GEARY; sewer in Hallock St., to J. W. LINDBERG; sewer in Cavour St. and in Fifth St., to LOUIS LIMA & CO. F. C. Turner is City Engr.

PRINCE ALBERT, SASK.—We are officially advised that a by-law appropriating $10,000 for the extension of the sewerage and water-works systems has been passed. F. A. Creighton is City Engr.

## GARBAGE DISPOSAL.

(* denotes this work is advertised in Engineering News.)

READING, PA.—Bids for the collection and disposal of garbage were opened by the City Council on Jan. 3, as follows: Benjamin Meyer, New York, N. J., one year, $26,700, per ton, $2.85; four years $54,900, per ton $2.85; three years $115,500, per ton $2.85; four years $147,000, per ton $2.85; five years $147,000. Reading Sanitary Reduction Co., one year $25,000, per ton $2.74; three years $81,-000, per ton $2.74; three years $82,500, per ton $2.74; four years, $110,000, per ton $2.74; four years $140,000, per ton $2.74.

MINNEAPOLIS, MINN.—See under Buildings.

VENICE, CAL. — A. BERNATHY was awarded the contract for hauling the city garbage by the Trustees on Jan. 29, at $2,-000.

PASADENA, CAL.—The following bids were received on Jan. 29 by the City Council for furnishing horse-pulling wagons: L. R. Tuttle, $3,475; New Mathews Co., $3,608; Llewellyn Iron Works, $4,120; Henshaw, Buckley & Co., $5,745.

## STREETS AND ROADS.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., Feb. 20, for furnishing and delivering gravel for parks and parkways and for 15,000 cu. yds. of mould on parks, Borough of Manhattan. Henry Smith is Pres. Bd.

OSWEGO, N. Y.—Bids are asked until Feb. 14 by the Commissioners of Public Works for 7,400 sq. yds. brick and stone paving curb, headers, etc. Charles W. Snyder is City Engr.

ALBANY, N. Y.—The bids received by Frederick Skene, State Engineer and Surveyor, on Jan. 23, for improvement of the State highways, are as follows:

Otto-Cattaraugus Road No. 695, Cattaraugus County, 1.21 miles: Sheehan, Melvin & Emory, Bradford, Pa., $11,810; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $11,794.

Otto-East Otto Road No. 696, Sec. 1, Cattaraugus County, 4.10 miles: Sheehan, Melvin & Emory, Bradford, Pa., $34,076; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $33,902.

Otto-East Otto Road No. 697, Sec. 2, Cattaraugus County, 2.27 miles: Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $17,363; Sheehan, Melvin & Emory, Bradford, Pa., $17,413.

Falconer-Kennedy Road No. 698, Chatauqua County, 1.044 miles: M. Y. Ryan Construction Co., Buffalo, N. Y., $12,785; Elmer M. Love & Son, Corry, Pa., $9,846.

Liberty-Jeffersonville Road No. 699, Sec 1, Sullivan County, 6.57 miles: Hinman & Sproul, Schenectady, N. Y., $58,992; Spuyten Duyvil Construction Co., New York, $56,-981; General Construction Co., Bridgeport, Conn., $61,554; Richards & Gaston 143 Liberty St., New York, $63,156; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $64,368; Bellew & Merritt Co., Tuckahoe, N. Y., $56,324; John F. Clancy Long Island City, L. I., N. Y., $56,022; D. Moynehan, Herkimer, N. Y., $66,031; Arthur W. Canney, Croton-on-Hudson, N. Y., $65,993.

Liberty-Jeffersonville Road No. 700, Sec. 2, Sullivan County, 5.15 miles: Hinman & Sproul, Schenectady, N. Y., $45,851; Richards & Gaston, 143 Liberty St., New York, $49,674; John E. Donovan, Richmond Borough, New York, $45,902; Supyten Duyvil Construction Co., New York, $45,239; D. Moynehan, Herkimer, N. Y., $48,249; Bellew & Merritt Co., Tuckahoe, N. Y., $44,939; General Construction Co., Bridgeport, Conn., $47,183; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $49,817; Arthur W. Canney, Croton-on-Hudson, N. Y., $52,737.

Malone-North Bangor Road No. 701, Franklin County, 4.15 miles: Sandy Hill Excavation & Construction Co., Sandy Hill, N. Y., $36,555; Buckley Construction Co., Plattsburg, N. Y., $34,327; Spuyten Duyvil Construction Co., New York, $37,076; John E. Quinn, Brooklyn, N. Y., $40,000.

Malone-Fort Covington Road No. 702, Sec. 2, Franklin County, 6.22 miles: Sandy Hill Excavation & Construction Co., Sandy Hill, N. Y., $48,366; Buckley Construction Co., Plattsburg, N. Y., $43,745; Spuyten Duyvil Construction Co., New York, $43,229.

Malone-Fort Covington Road No. 703, Sec. 3, Franklin County, 4.19 miles: Sandy Hill Excavation & Construction Co., Sandy Hill, N. Y., $32,894; Spuyten Duyvil Construction Co., New York, $32,069; Buckley Construction Co., Plattsburgh, N. Y. (informal); John E. Quinn, Brooklyn, N. Y., $35,730.

Greenville-Coxsackie Road No. 719, Sec. 2, Greene County, 5.56 miles: Morris Kantrowitz, Albany, N. Y., $42,363; General Construction Co., Bridgeport, Conn., $46,859; De Graff & Hogeboom, Bloomington, N. Y., $45,-745; Bellew & Merritt Co., Tuckahoe, N. Y., $44,584; Thomas H. Karr, Troy, N. Y., $38,-002; Hinman & Sproul, Schenectady, N. Y., $42,459; Michael F. Dollard, Albany, N. Y., $42,522; Joseph Walker, Stone Ridge, N. Y., $43,544; D. Moynehan, Herkimer, N. Y., $42,-634; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $44,199; John E. Consaulis, New York, $37,895.

Sandy Hill-Adamsville Road No. 720, Washington County, 5.20 miles: Kingsbury Construction Co., Sandy Hill, N. Y., $36,405; Buckley Construction Co., Plattsburg, N. Y., $35,474; Linehan & Burnham Co., Glens Falls, N. Y., $35,350; D. Moynehan, Herkimer, N. Y., $37,704; Bellew & Merritt Co., Tuckahoe, N. Y., $39,181; James D. Sherrill, Sandy Hill, N. Y., $41,135.

White Creek-County Line Road No. 721, Washington County, 3.17 miles: Hitchcock & Pratt, White Creek, Cambridge, N. Y., $27,572; F. P. Larmon, Troy, N. Y., $25,081; Hinman & Sproul, Schenectady, N. Y., $25,-952; Linehan & Burnham Co., Glens Falls, N. Y., $32,228; M. Fitzgerald, Hoosick Falls, N. Y., $25,265; C. W. Tyron, Meriden, Conn., $26,182; Martin Murray, Troy, N. Y., $24,-496; Bellew & Merritt Co., Tuckahoe, N. Y., $25,549; General Construction Co., Bridgeport, Conn., $28,757; Kingsbury Construction Co., Sandy Hill, N. Y., $29,669; John E. Quinn, Brooklyn, N. Y., $24,355.

Hebron Town Line-Granville Road No. 722, Washington County, 2.06 miles: F. P. Larmon, Troy, N. Y., $10,570; Kingsbury Construction Co., Sandy Hill, N. Y., $19,583; Linehan & Burnham Co., Glens Falls, N. Y., $19,734; M. Fitzgerald, Hoosick Falls, N. Y., $19,357; Bellew & Merritt Co., Tuckahoe, N. Y., $19,281; Hinman & Sproul, Schenectady, N. Y., $18,328; John E. Quinn, Brooklyn, N. Y., $19,322; General Construction Co., Bridgeport, Conn., $20,282.

Chittenango-Oneida Road No. 726, Sec. 2, Madison County, 7.53 miles: M. V. Ryan Construction Co., Buffalo, N. Y., $78,380; M. F. Dollard, Albany, $78,084; Stewart-Kerbaugh-Shanley Co., 527 Fifth Ave., New York, $77,721.

Portville-Olean Road No. 730, Sec. 1, Cattaraugus County, 3.46 miles: M. V. Ryan Construction Co., Buffalo, N. Y., $34,727; Dugan, Keenan & Co., Olean, N. Y., $31,571; E. M. Love & Son, Corry, Pa., $20,781; Sheehan, Melvin & Emory, Bradford, Pa., $33,384; Star Contracting Co., Glens Falls, N. Y., $29,732.

Portville-Olean Road No. 731, Sec. 2, Cattaraugus County, 2.06 miles: M. V. Ryan Construction Co., Buffalo, N. Y., $22,341; Dugan, Keenan & Co., Olean, N. Y., $21,099; E. M. Love & Son, Corry, Pa. $19,624; Sheehan, Melvin & Emory, Bradford, Pa. $22,115; Star Contracting Co., Glens Falls, N. Y., $19,619.

Ogdensburg-Canton Road No. 732, Sec. 1, St. Lawrence County, 8.79 miles: Ryan & Yale, Brewster, N. Y., $64,472; Buckley Construction Co., Plattsburg, N. Y., $64,519; Frank G. Fowler Construction Co., Mount Kisco, N. Y., $75,731; Roberts & Doyle, Ogdensburg, $86,467; Reed & Fitzgibbons, Ogdensburg, N. Y., $84,549; Bellew & Merritt Co., Tuckahoe, N. Y., $65,515.

Ogdensburg-Canton Road No. 733, Sec. 2, St. Lawrence County, 8.02 miles: Ryan & Yale, Brewster, N. Y., $67,016; Frank G. Fowler Construction Co., Mount Kisco, N. Y., $68,562; Buckley Construction Co., Plattsburg, N. Y., $67,154; Bellew & Merritt, Tuckahoe, N. Y., $68,815.

Big Flats-Gibson Road No. 742, Steuben County, 4.33 miles: A. P. Bovier, Elmira, N. Y., $49,958; Foote Bros., Nunda, N. Y., $47,600; H. B. Hooker & Son, Rochester, N. Y., $59,479; Bradley & Nolan, Corning, N. Y., $48,185; Casey & Murray, Rochester, N. Y., $50,222.

Babylon-Bay Shore Road No. 743, Suffolk County, 4.08 miles: Benjamin B. Wood, Babylon, N. Y., $45,339; E. Revbert, Bay Shore, N. Y., $44,619; Bellew & Merritt Co., Tuckahoe, N. Y., $38,081; Rockefeller Bros., Brooklyn, N. Y., $39,932; Andrews Bros., Mineola, L. I., N. Y., $53,620; Hammond & Sloane, New York, $45,472; Pease Bros., Flushing, L. I., N. Y., $61,823; Russell Contracting Co., New York, $43,580; DeWitt C. Boucker, Jr., Far Rockaway, L. I., N. Y., $38,151; Henry J. Mullen, Jamaica, L. I., N. Y., $44,971.

*WATERTOWN, N. Y.—Bids are asked until 5 p. m., Feb. 20, by the Board of Public Works for the construction of about 4,500 sq. yds. of pavement in that portion of LeRay and Main Sts., between the northerly end of the Court. St. bridge, so called, and the westerly margin of the public right-of-way on Main St. leading to the new freight terminal of the New York Central & Hudson River R. R. Co., including the street intersection of LeRay and Main Sts., together with the necessary curbing, grading, culverts, catch basins and all other work in connection therewith for the proper completion of the pavement. Bids will be received for each of the following kinds of pavement: Medina block pavement on concrete base; vitrified paving block or brick on concrete base. Samples of the materials to be used in the different kinds of pavements must be deposited with the City Engineer at or before the time of making the bid. H. E. Baker is City Engr.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., Feb. 26, for regulating grading and paving with asphalt pavement on a concrete foundation the roadway of 57th St., from Sixth to Seventh Ave., and for regulating and repaving with Medina sandstone pavement, Class "A," on a concrete foundation, the roadway of Fulton St., from Joralemon St. to Hanover Place.

*ASBURY PARK, N. J.—Bids are asked until noon, Feb. 17, by the city for paving about 25,000 sq. yds. W. C. Burroughs is City Clk.

HARRISBURG, PA.—We are officially advised that the lowest bidder on Feb. 3 for the construction of 25,035 ft. of road, 10 ft. wide in Hempfield Township was the August Fogel Co., Hollidaysburg, Pa., at $69,525 and $67,873. Joseph W. Hunter is State Highway Comr.

FORT HUNT, VA.—Bids are asked in triplicate until 2 p. m., March 2, by the Constructing Quartermaster, U. S. A., Fort Washington, Md., for the construction of macadam roads, brick gutters, concrete abutment, catch basins, railroad track, and the resurfacing of roads at Fort Hunt, Va.

DURHAM, N. C.—R. L. PETERS, Knoxville, Tenn., has been awarded the contract far grading and macadamizing about twelve miles of road in Durham County, at $60,000.

FORT BARRANCAS, FLA.—Specifications for improving the roadway to the Barrancas National Cemetery are on file at the office of Engineering News, New York. Bids are asked until Feb. 20.

IRONDALE, ALA.—D. W. HANDY and D. S. McLEAN have been awarded the contract by the Board of Revenue, Birmingham, Ala., for macadamizing one-half mile of the Leeds road beyond Irondale at $1.10 per cu. yd.

LOUISVILLE, KY.—Bids for the improvement of Bismarck Ave. between 26th and 28th Sts. were rejected on Feb. 1, by the Board of Public Works. Alexander G. Barret is Chn. Bd.

CINCINNATI, OHIO.—Bids are asked by the Board of Commissioners of Hamilton County until noon, Feb. 21, for the improvement of Hamilton pike, from north corporation line of Mt. Healthy to Butler County line, Springfield Township. Fred Dreihs is Clk. Bd.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Feb. 29, by the County Commissioners for grading, draining and paving the Cleveland and Wooster turnpike from the limits of the city of Cleveland to York St., in Parma Township. Julius C. Dorn is Clk. Comrs.

MASSILLON, OHIO.—Bids are asked by the Board of Public Service until noon, Feb. 17, for the construction of a brick block pavement in alley between Main and Wellman Sts., from Prospect St. to Cedar St., and in Diamond alley from Factory St. to west line of South East St. G. G. Paul is Clk. Bd.

CLEVELAND, OHIO.—Bids are asked until noon, Feb. 20, by A. C. Callow, Secy. Bd. Pub. Serv., for grading, draining, curbing or flagging, paving with paving brick, and improving various streets.

HAMMOND, IND.—Bids are asked by F. R. Schaaf, Township Trustee Superior Court House, until Feb. 16 for furnishing road material during 1908.

LEBANON, IND.—JOHN ADAMS has been awarded the contract for 10,800 sq. yds. metropolitan brick paving on 6-in. 1:10 concrete and 2-in. sand cushion, including 4,500 yds. gravel and clay excavation at $21,316. Other bidders were: George T. Miller, $21,-500; Sheehan & McCarthy, $21,700.

GEORGE T. MILLER has been awarded contract for 5,577 sq. yds. Brazil brick paving on 6-in. concrete and 6-in. sand cushion at $10,824. Other bidders were: John Adams, $10,963. Samuel W. Coulson is City Engr.

DOWNER'S GROVE, ILL.—M. C. CONNOR has been awarded the contract for constructing 51,933 sq. ft. 1-2-3-in. cement sidewalks on 4-in. 1:3:4 concrete, at $7,241. Other bidders were: Culp Paving Co., $8,642; Federal Improvement Co., $7,782.61. J. S. Lozier is Village Engr.

MT. VERNON, ILL.—Bids are asked until 7.30 p. m., Feb. 18, by the City Clerk for the construction of 10,167 sq. yds. of brick pavement. Estimated cost, $11,274.

*PARIS, ILL.—Bids are asked by T. C. McCord, Pres. Bd. Local Improvements, until 7.30 p. m., Feb. 18 for paving with brick on concrete foundation East Washington, Chestnut and East Madison Sts. W. T. Blackburn is City Engr.

BERWYN, ILL.—The contract for constructing concrete sidewalks on portions of 14 streets has been awarded to OTTO KREBE, South Oak Park, Ill., at about $10,000. B. Munger is Chn. Bd. Local Improvements.

MARINETTE, WIS.—A. L. Hillis, City Engr., is preparing plans and bids will be asked in about six weeks for brick paving on Main St. and Pierce Ave.

GREEN BAY, WIS.—W. W. Reed, City Engr., is preparing plans for asphalt paving on East Main St. Bids will be asked in March.

KENOSHA, WIS—Bids are asked by R. K. Moth, City Engr., until Feb. 21 for 26,-000 sq. yds. of brick paving, 13,000 lin. ft. stone curbing and 1,300 lin. ft. of concrete curbing.

DES MOINES, IOWA.—JAMES HORRABIN was awarded the contract on Jan. 29 by the Board of Public Works for paving West Sixth St. and West Seventh St. with creosoted wooden blocks, at $2.39 per sq. yd., including 90 ft. of curbing and eight sewer intakes. George D. Dobson is City Engr.

Bids are asked by J. W. Budd, Consulting Engr., until Feb. 15 for platting Brown's Woods, about 35 acres; the work includes 20,000 cu. yds. excavating, 27,000 sq. yds. brick paving, 80,000 sq. ft. cement sidewalk and 16,000 lin. ft. concrete curb.

NORTH PLATTE, NEB.—The contract for laying 26,460 sq. ft. cement sidewalk in the Trustees addition was awarded on Jan. 29, by the city to A. G. HULTMAN, Kearney, Neb.

TYLER, TEX.—OCLANDER BROS., Waco, Tex., have been awarded the contract by the city for about 18,000 sq. yds. street paving.

NORTH YAKIMA, WASH.—The Council has passed a resolution directing the City Engineer to prepare estimates on the cost of paving Yakima Ave. with brick.

SEATTLE, WASH.—The following contracts have been awarded by the Board of Public Works: Ninth Ave. West and other streets, concrete sidewalks, to WILLIAM NEILAN & CO., $9,574; Virginia St., planking, H. F. JAHN & CO., $4,265; Virginia St., asphalt paving, BARBER ASPHALT PAVING CO., $17,493; Railroad Ave. and other streets, planking, C. GEKSE & CO., $29,982; alley in Blocks 1 and 2 Crown Addition, grading, JOSIAH JONES, $3,446; 25th Ave., North and other streets, grading, P. J. McHUGH, $57,087; Third Ave., concrete sidewalks, H. F. JAHN & CO., $6,431; 12th Ave. North and other streets, grading, JOSEPH FRANK, $11,745.

OLYMPIA, WASH.—Bids are asked until 2 p. m., Feb. 25, by Joseph M. Snow, State Highway Comr., for grading and macadamizing state road No. 8, Balthis road, and state road No. 9, Eskridge road, Whitman County.

TACOMA, WASH.—D. A. WILLIAMS was awarded the contract on Jan. 27 for paving Pacific Ave. from South Seventh St. to a point near Flyer dock, at $52,643. Frank L. Davis is City Engr.

SEATTLE, WASH.—We are officially advised that the BARBER ASPHALT PAVING CO., Mutual Life Bldg., Seattle, was awarded the contract on Feb. 1 by the Board of Public Works for paving Virginia St. with asphalt, at $17,493. R. H. Thomson is City Engr. Itemized bids will be given next week under Contract Prices.

## MANUFACTURING PLANTS.

STAPLETON, S. I., N. Y.—Louis Allmendinger, Arch., 926 Broadway, Brooklyn, advises us that mason contract has been let to CHARLES BEINERT, Richmond Road, Stapleton, S. I., for alterations to brewery for the Bachmann & Bechtel Brewing Co., Clifton. The contract for apparatus has been let to the SELG BREWERY APPARATUS CO., 40 Water St., New York. Total cost, $25,000.

BALTIMORE, MD.—The Baltimore & Ohio R. R. Co., D. D. Carothers, Ch. Engr., has awarded contract to JAMES STEWART & CO., Fisher Bldg., Chicago, Ill., for construction of proposed grain elevator at Pratt and Poppleton Sts. The structure will have present capacity for 250,000 bushels, but is so designed that this can be doubled in future. It will be of reinforced concrete construction, metal frames and sashes, with self-registering scales, pneumatic dust collectors, etc., all to be operated by electricity from dustproof motor rooms. Cost, about $200,000. Plans prepared by M. A. Long, B. & O. Arch., and work will be under supervision of J. E. Greiner, Asst. Ch. Engr.

HARRISONBURG, VA.—W. E. Swank will erect a 3-story transfer machine house and deal in all kinds of farming implements. Estimated cost, $10,000.

PARKERSBURG, W. VA.—The Parkersburg Mill Co. has adopted plans for buildings to replace structures burned at a loss of about $100,000. The planing mill will be of brick, two stories high and 80 × 150 ft. The bandsaw mill will be two stories, 40 × 200 ft.

SPENCER, N. C.—The Southern Ry. Co., D. W. Lum, Ch. Engr., Washington, D. C., has awarded contract to J. C. MORRIS, Greensboro, N. C., for enlargement of roundhouse yards at Spencer, including erection of several concrete cinder pits about 100 ft. long. The company is said to be arranging for erection of 2-story brick office and storage building.

TRYON, N. C.—Articles of incorporation have been filed for the Pacolet Finishing Co., of Tryon, N. C., the capital stock being $125,-000, and the incorporators being J. F. Wilcox and associates. The company will finish cotton goods.

LENOIR, N. C.—The Moore Cotton Mill Co. has received plans and specifications for construction of its proposed buildings. The company has a capital stock of $100,000 and proposes to operate 5,000 spindles on the production of fine cotton yarns. The officers of the company are F. P. Moore, Pres.; J. V. McCall, Vice-Pres.; M. G. Shearer, Secy.-Treas., and J. O. White, Supt. Those named and J. N. Bernhardt, W. C. Coffey and H. B. Moore are Directors for the first year. The plant is located at Lenoir.

ROCK HILL, S. C.—The Wymojo Cotton Mills Co. of Rock Hill, S. C., has secured plans and specifications for its proposed buildings, and construction of them is to begin some time this month. The company has awarded contract for construction to J. J. KELLER, of Rock Hill, who is making preparations to begin the work. This company was organized with a capital stock of $125,000. Its plan is to build a 5,000-spindle plant for the production of cotton yarns. Webb W. Moore and J. B. Johnson, of Rock Hill, and Sims Wylie, of Charlotte, N. C., are the company's officers. Mr. Wylie is connected with the Southern Power Co. W. G. Wylie, Pres.

CALHOUN, GA.—Plans and specifications have been completed for buildings for the Echota Cotton Mills. The section to be built will contain 10,000 spindles and 300 looms. C. D. Milstead, of Ludwig & Co., Empire Bldg., Atlanta, Ga., is Arch.-Engr.

ATTALLA, ALA.—The proposed grist mill to be erected for the Brown Milling Co. will be a 4-story building, 38 × 56 ft. Cost of building, $4,000; cost of machinery, $7,000. It will have a daily capacity of 2,500 bushels meal and feedstuff. E. L. Wilson is Engr.; M. H. Templin is Arch.

HUNTSVILLE, ALA.—The Abingdon Mills, of Huntsville, Ala., may make arrangements for adding new machinery soon. This company operates about 20,000 spindles and 400 looms. Probably only spinning machinery will be added at present.

CEDARS, MISS.—The Cedars Mfg. Co. will erect a mill and drying sheds. The buildings will cost $3,000; machinery, $5,000. One mile of logging railway will be built. The plant will have a daily capacity of from 40,000 to 60,000 ft. of lumber and veneer. Arthur E. Chapman is Arch.

HOMER, LA.—The Louisiana & Northwest R. R. Co., will erect shops and make other improvements at Homer, expending about $100,000. W. A. Hunicke, Homer, is Engr.

SHREVEPORT, LA.—The North Louisiana Truck Growers' Association, H. S. Norton, Pres., Shreveport, La., will construct a canning factory at this town at a cost of $10,000, not including cost of site.

GALLATIN, TENN.—The grain elevator of the Payne-Gardner Elevator Company, recently destroyed by fire at a loss of $40,000, will be rebuilt. Lewis Payne and E. S. Gardner are owners.

COLUMBUS, OHIO.—The Board of Directors of the Columbus Dental Mfg. Co., C. A. Hawley, Secy., contemplates the erection of a fireproof factory building.

CLEVELAND, OHIO.—The Vorce Engineering Co. has prepared plans for a 1-story foundry and manufacturing plant for the Rickersberg Brass Co. Estimated cost, $18,-000.

CANNELTON, IND.—The Cannelton Sewer Pipe Co., capitalized at $50,000, proposes to construct a 2-press plant and ten kilns for the manufacture of sewer pipe and other clay products.

SOUTH BEND, IND.—The Concrete Mfg. Co., recently incorporated, has secured a 5-acre site, upon which it will erect a plant to manufacture artificial stone from cement, gravel and water.

GRAND RAPIDS, MICH.—Watson & Frost Co., Widdicomb Bldg., have plans for a 75-bbl. flour mill. Estimated cost, $12,000.

GRAND RAPIDS, MICH.—The American Seating Co., W. B. Stiles, Local Mgr., has purchased land north of its factory, and is planning to erect a 3-story addition, 100 × 200 ft.

CHICAGO, ILL.—The Corn Products Co. of America is about to locate a manufacturing plant at an estimated cost of about $5,000,000 on the line of the Chicago & Joliet Electric Ry., about four miles from its Chicago terminal.

L. E. Stanhope, Monadnock Block, has plans for a 4-story manufacturing building for J. S. Young to cost, $40,000.

Thomas Mullay, Arch., Monadnock Block, has made plans for a manufacturing building for the Illinois Show Case Works, Inc., 47 South Desplaines St., Chicago, Estimated cost, $40,000.

HARVARD, ILL.—Bids are asked until Feb. 20 by the Harvard Packing Co. for constructing a 2-story plant, 40 × 30 ft., to cost $4,000; also for alterations and additions to old buildings. Machinery costing $20,000 will be installed, including refrigerating machinery, hydraulic press, steam pumps, etc. Daniel Hereley is Pres.

CRESTON, IOWA.—S. M. Johnson and others have formed a company to manufacture a riding disk harrow, and will erect a 3-story manufacturing plant. Estimated cost, $20,000.

WINFIELD, KAN.—Bids are asked by F. W. Knapp, Secy. Bd. of Control, Topeka, until 2 p. m., March 6, for the erection of a laundry building at the School for Feeble-Minded Youth, Winfield. Appropriation, $8,000.

ARGENTINE (Kansas City post-office), KAN.—C. A. Morse, Engr., Topeka, Kan., is receiving figures for a 1½-story machine shop to be built at Argentine, for the Atchison, Topeka & Santa Fe Ry. Co.

KANSAS CITY, MO.—The Clark Williams Co., Temple Bldg., is preparing plans for a 3-story laundry building to be erected by the G. C. Ford, Laundry Co., Tenth and Campbell Sts., Kansas City.

MARIANNA, ARK.—The Marianna Storage Co., J. S. Wahl, Pres., will establish an ice and cold-storage plant of ten tons capacity. Plans are being prepared by The Creamery Package Mfg. Co., 184 East Kinzie St., Chicago, Ill. Building will be erected, cost not decided; cost of machinery $10,000. S. T. Hardin is Mgr.

BEAUMONT, TEX.—The Josey-Miller Co. will erect a 500-bbl. flouring mill to run in connection with the grist mill which the company will build to take the place of the plant recently burned. The building will be constructed of sheet iron, with exception of flour mill part; warehouse will be separated by brick fire wall three or four feet in thickness. Contract has been awarded to A. B. THAMES. The company will erect four steel-tank grain elevators with capacity of 35,000 bushels, for which the R. C. STONE CO., Springfield, Mo., is contractor. The entire plant will cost about $40,000.

BROWNWOOD, TEX.—J. D. Fay, Columbia, Mo., will erect a brick plant here, it is stated. Capacity, 20,000 bricks a day.

HARTSHORNE, OKLA.—The McAlester Portland Cement Co. has been organized and will establish a plant at Hartshorne, expending about $75,000 for buildings, and $300,000 for machinery. H. E. Swan, McAlester, is Gen. Mgr. No architect or engineer has been chosen.

HOQUIAM, WASH.—O. C. Fenlason, intends to construct a veneer plant on Gray's Harbor, upon a site not yet selected. About $50,000 will be invested.

PORTLAND, ORE.—A company organized by F. J. Catterlin, Abington Bldg., proposes to build a tannery in Portland, to be operated by the Antioak process, employing 100 men, and to build a shoe factory, a harness factory, a collar factory and an automobile factory, to use the output of the tannery. The cost of the proposed plant is estimated at $200,000.

VANCOUVER, B. C.—The Canadian Fish & Cold Storage Co., Ltd., is organized, it is reported, to construct a cold storage plant in British Columbia on Porpoise Bay, to be of concrete and structural steel and have a storage capacity of 6,000,000 lbs. of fish. The erection of a fish fertilizer plant, capable of treating 100 tons of fish daily, is contemplated in the future. Andrew Kelly, of Winnipeg, Man., is Pres., and Grier Starratt, of Vancouver, Dir. and Gen. Mgr. Capital, $1,500,000.

## MISCELLANEOUS CONTRACTS.

(* *denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Railways.

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*BREAKWATER.—Hawaii.—See under U. S. Possessions and Cuba.

WIDENING CANAL.—Detroit, Mich.—Bids are asked by Col. E. L. B. Davis, Corps Engrs., U. S. A., until 3 p. m., March 5, for widening St. Mary's Falls Canal.

TIPPLE.—Michel, B. C.—The Crows Nest Pass Coal Co. has decided to build a new tipple at its mines here. Estimated cost, $200,000. G. G. S. Lindsay, Gen. Mgr.

DOCK.—Two Rivers, Wis.—Bids are asked until Feb. 14 by the Board Public Works, Wm. Luebke, Chn., for constructing a dock on the north side of West Twin River.

REBUILDING WHARF.—Fort McHenry, Md.—Bids are asked by the Quartermaster until 1.30 p. m., Feb. 21, for rebuilding the government wharf at Fort Armistead, Md.

*WHARF.—Key West, Fla.—Bids are asked by Capt. C. H. Lanza, Const. Q. M., Fort Taylor, Key West, until 11 a. m., March 14, for construction of a wharf at Fort Taylor.

WHARF.—Jamestown, R. I.—Bids are asked by Capt. Willis C. Metcalf, Q. M., U. S. A., 200 Thames St., Newport, until Mar. 4, for constructing an addition to wharf at Fort Wetherill.

DITCH.—Paulding, Ohio.—C. L. Straw, County Surveyor, states that the Bates cut-off ditch has been authorized by the County Commissioners comprising ditch and dredge work at an estimated cost of $25,000.

DITCH.—Onawa, Iowa.—Contract for construction of the Young-Aldrich ditch in Monona County has been let to the CANAL CONSTRUCTION CO., of Onawa, at 11 cts. a cu. yd. Estimated quantity, 440,000 cu. yds.

TELEPHONE, TELEGRAPH SUPPLIES.—New York, N. Y.—Bids are asked until 10 a. m., Feb. 19, at bookkeeper's office, Central Dept., Police Dept., for furnishing and delivering telegraph and telephone supplies during 1908.

*LIGHT STATION.—Alaska.—Contract for material, erection and construction of Hinchinbrook entrance light station, Alaska, has been let to FASTABAND, PALMBERG & HABLECK, Astoria, Ore., at $99,550. Noted last week.

BREAKWATER.—Key West, Fla.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 3, for construction of new breakwater wall at the U. S. Marine Hospital, Key West.

SWIMMING POOL.—Denver, Colo.—Bids are asked until 11 a. m., Feb. 20, by C. A. H. McCauley, Ch. Q. M., for constructing a swimming pool at Fort Huachuca, Ariz. Bids received for this work on Jan. 9 were rejected. Noted on Dec. 19.

DRAINAGE DITCH.—Princeton, Ill.—The Commissioners of the Fairfield Drainage District of Bureau County, Ill., have awarded contract to G. A. McWILLIAMS, of Walnut, Ill., to construct seven miles of open drainage ditch at 15 cts. a cu. yd.

DAM.—Idaho Springs, Colo.—GEO. S. WILKIE, of this city, has secured the contract, at $18,000, for the construction of a dam, 700 ft. long, 33 ft. high, 16 ft. wide on top, containing about 40,000 cu. yds. rock and earth; also a road two miles in length. Charles Brandstetter is City Clk.

STEAMER.—Washington, D. C.—Bids are asked until 2 p. m., March 10, by Maj. M. G. Zalinski, Q. M., U. S. A., for the construction and complete equipment of a twin screw steamer for Army service, length 165 ft., load line 154 ft., breadth, 32 ft., depth 17 ft.

ORDNANCE.—Washington, D. C.—Bids are asked until noon, Feb. 20, at the Bureau of Ordnance, Washington, D. C., for furnishing one 12-in. rifle lining tube forging, and until the same time of Feb. 24 for furnishing 15,000,000 rounds of gallery-practice cartridges.

*DREDGING.—Wilmington, Del.—Bids were received on Feb. 6 by C. A. F. Flagler, Corps Engrs., U. S. A., for dredging Mispillion River, Del. Lowest bidder was the River & Harbor Improvement Co., Philadelphia, at 12.2 cts. a cu. yd., place measurement.

DRAINAGE DITCH.—Monticello, Ind. — County Surveyor Alba G. Arnold has awarded the contract for the construction of the Connett drainage canal in Tippecanoe township and Prairie Township, White County, to HENRY LEE, of New Richmond, Ind., at $8,400.

BULKHEAD.—Fort Terry, N. Y.—Bids were received on Jan. 27 by Capt. William E. Horton, Q. M., U. S. A., New London, Conn., for furnishing material and constructing 360 ft. timber bulkhead at Fort Terry. Lowest bidder was the Q. A. Scott Co., New London, at $4,800.

DREDGING.—Savannah, Ga.—Bids were received on Feb. 6 by Lieut.-Col. Dan C. Kingman, Corps Engrs., U. S. A., for dredging in inland waterway between Savannah, Ga., and Beaufort, S. C. Contract was awarded to the SIMONS-MAGRANT CO., Charleston, S. C., at 23 cts. a cu. yd. Estimated quantity, 36,000 cu. yds.

DITCH.—Geneseo, Ill.—Bids were received on Jan. 31 by the Commissioners of the Green River Special Drainage District for construction of the Gray Ditch and Conley Ditch, requiring the removal of about 128,260 cu. yds. of earth. Contract was awarded to G. A. McWILLIAMS, Walnut, Ill., at 8.7 cts. a cu. yd.

DRAIN.—Council Bluffs, Iowa.—Bids were received on Feb. 3 by the Board County Supervisors, for furnishing material and constructing sections Nos. 1 and 2 of the Avoca Drain, requiring about 10,650 ft. 6, 8, 10, 12 and 16-in. tile. W. C. Cheyne, County Audr. Contract was awarded to W. M. LANN, Harlan, Iowa, at $2,979.

*DIKES.—New York, N. Y.—Bids are asked by Col. John G. D. Knight, Corps Engrs., U. S. A., Army Bldg., New York, until noon, March 16, for furnishing and delivering piling and round timber; square timber and lumber; rubble stone, quarry spalls and quarry refuse; bolts, spikes, etc., for constructing and repairing dikes in the Hudson River, N. Y.

SMELTER.—Youngstown, Ohio.—The contract for the new smelter to be built on the site of the Grace furnace by the Brier Hill Iron & Coal Co. has been let to the WILLIAM B. POLLOCK CO., of Youngstown. The new furnace will have a daily capacity of 400 tons and will be equipped with all modern appliances. Estimated cost of improvement is $1,000,000.

DITCH.—Estherville, Iowa.—Bids are asked by Roy J. Ridley, County Audr., until 10 a. m., Feb. 27, for construction of Emmet County Drain No. 26. Estimated cost, $21,000. Specifications are on file at office of Engineering News, New York.

Contract for constructing county drain No. 24 was awarded to J. M. JOHNSON, of Spirit Lake, Iowa, for $3,605.

STEAMERS.—New York, N. Y.—Bids are asked by John V. Coggey, Comr. Correction, until 11 a. m., Feb. 25, (1) for furnishing all the labor and materials required for the construction and completion of a twin-screw steel passenger and freight steamer; (2) for furnishing all the labor and materials required for constructing and completing a steel passenger steamboat.

*RAILWAY YARDS.—Philadelphia, Pa.—Bids are asked until noon, Feb. 27, by the Philadelphia & Reading Ry. Co., for work in connection with the abolishment of grade crossings on the P., G. & N. R. R., as follows: Contract No. 28. Car cleaning yard, Huntingdon St.; contract No. 30, coal pocket yard between Berks and Norris Sts. (east side). W. Hunter, Ch. Engr.

CONCRETE WHARF.—Santa Monica, Cal.—The City Council has adopted the plans of Edwin H. Warner, of Los Angeles, for the construction of a reinforced concrete wharf extending into the Pacific Ocean at foot of Colorado Ave., for a distance of 1,600 ft. from mean tide line. Bids will probably be called for soon. Thos. H. James, City Engr. Noted fully on Dec. 5, under Sewerage.

TUNNEL.—Salt Lake City, Utah.—Bids are asked by the State Board of Land Commissioners at Salt Lake City, until 2 p. m., Feb. 17, for constructing an open cut 270 ft. long, more or less, and a tunnel 420 ft. long, more or less. The open cut is partly in earth and partly in solid rock. The tunnel entirely in solid rock. This work is located approximately ten miles south of Marysville. Thos. C. Callister is Secy.

DRAINAGE DITCH.—Charleston, Miss.—Bids are asked until March 3 by the Drainage Commisioners of Tallahatchie County, Miss., composed of E. Bacon, Secy.; G. H. Payne and T. J. Denman, Charleston, Miss., for construction of main ditch in Ascalmore Drainage District. The ditch is to be about four miles long, four feet deep and 20 feet wide. Estimated cost, $14,000. Bond, $5,000. Work is to be completed by Aug. 1.

DRY-DOCK.—Brooklyn, N. Y.—The Bureau of Yards and Docks, Navy Dept., Washington, will probably award in the next few days contract to the WILLIAMS ENGINEERING & CONTRACTING CO., 21 Park Row, New York, for completing the work on the New York Navy-Yard dry-dock, upon which the original contractor recently defaulted. The bid of the Williams Co. was $774,400, or $764,000 if the machinery forfeited by the defaulting contractor be used. Bids were opened Jan. 18, and ranged from $774,000 to $1,750,000, as noted on Jan. 23.

NOZZLES, PIPE-HOLDERS, ETC.—New York, N. Y.—Bids are asked until 10.30 a. m., Feb. 24, by Francis J. Lantry, Fire Comr., for furnishing and delivering three extra large size hose wagons for high pressure system; twelve wagon nozzles (stand pipes) for high pressure system; twelve pipe holders, complete, for high pressure system, Boro. Manhattan. Also for furnishing and delivering nine wagon nozzles (stand pipes) for high pressure system; and for furnishing and delivering twelve pipe holders complete for high pressure system, Boro. Brooklyn.

FLYING MACHINE.—Washington, D. C. — The Secretary of War has approved the recommendation of the Board of Ordnance and Fortification that bids for furnishing a heavier-than-air flying-machine to the United States Government be accepted as follows: J. F. Scott, Chicago, Ill., $1,000, 185 days; A. M. Herring, New York, $20,000, 180 days; Wright Bros., Dayton Ohio. $25,000, 200 days. In all 41 bids were received; three were the only ones that complied with the requirements of the government. It was part of the agreement in issuing the call for bids that none of the particulars of the bids were to be given out but retained as confidential.

SLATE, LUMBER, ETC.—Leavenworth, Kan.—Bids are asked by R. V. LaDow, Supt. Prisons, Dept. Justice, Washington, D. C., until 10 a. m., Feb 28, for furnishing and delivering at the United States Penitentiary, Leavenworth, Kan., the following structural material: 15,280 pieces 10 × 16-in., ¼-in. thick, best quality Bangor, Maine, black roofing slate; 1,000 pieces short-leaf yellow pine, various sizes; 9,000 ft. 1 × 6-in. roof sheathing No. 2, tongued and grooved; 50 pieces plain white oak, various sizes; 450 ft. flooring, 1 × 2½ ins., No. 1; 100 rolls roofing felt No. 2, Barrett or equal; nine 8-in. I-beams, 16 ft. long; two 8-in. I-beams, 24 ft. long.

DEEPENING CREEK.—Prophetstown, Ill.—Bids were received on Feb. 5 by the Drainage Commissioners of the Union Special Drainage District, of Tampico, Prophetstown and Hume, at the office of F. W. Sears, Engr., Prophetstown, for deepening and widening Coon Creek Line No. 1 in said Drainage District, requiring the removal of about 250,000 cu. yds. material; also, same time and place, for three miles of work in Lee County, not yet surveyed, requiring the removal of about 50,000 cu. yds. material; this work being a continuation of Coon Creek Line No. 1, three miles farther east. Contract was awarded to A. R. PUTNAM, Valparaiso, Ind., at 64 cts. a cu. yd.

*BREAKWATER, DREDGING. — Algoma, Wis.—Plans and specifications for reinforced concrete caisson breakwater, pile pier, and plank cribs, removing old pier, and dredging, at Algoma Harbor are on file at office of Engineering News, New York. Bids are asked until 2 p. m., Feb. 24, by Maj. M. V. Judson, Corps Engrs., U. S. A., Milwaukee. The attention of prospective bidders is invited to the fact that although the work to be done is small in amount, yet the experience to be gained by the contractor in the reinforced concrete portion might justify him in undertaking it in view of the probability that the increasing scarcity of timber will lead to considerable amounts of such work being done in the future.

*STEAMBOAT LANDING.—Erie, Pa.—Bids were received on Feb. 4 by Clark Olds, Pres. Erie Dock Comn., Chamber of Commerce rooms, Erie, for the construction and completion of a public steamboat landing at the Port of Erie, about 548 ft. long and 100 ft. wide; and will include all dredging, timber, cribs filled with rock, filling between cribs, concrete walls and brick pavement. Bids were as follows: STANDARD CONTRACTING CO., Cleveland, [illegible] $128,600; Hunkin Bros., Cleveland, $[illegible]; A. F. Chapman & Co. (Frank C[illegible]bard), Buffalo, N. Y., $143,000; Read & [illegible]ngton, Niagara Falls, N. Y., $134,161; [illegible] Lakes Dredge & Dock Co., Cleveland, [illegible]00; F. J. McCain, Mercer, Pa., $16[illegible] Nicola Building Co., Pittsburg, Pa., $1[illegible] Contract was awarded to the STAND[illegible] CONTRACTING CO.

*CANAL.—Albany, N. [illegible] C. Stevens, Supt. of Public Works, [illegible]jected the bid of the Lake Erie Dredg[illegible], of Buffalo, N. Y., in amount, $7[illegible] submitted on Jan. 31, for Barge Can[illegible]tract No. 9. Engineer's estimate, $7[illegible] The bid was the only one received [illegible] just under 10% in excess of the engi[illegible] estimate. The law forbids the award of [illegible]tract, excepting with the approval of [illegible] Canal Board, where the bid exceeds [illegible]gineer's estimate by more than 10% [illegible]re any item exceeds the item of th[illegible]te by more than 20%. In this bid, [illegible]portant item was exactly 20% in exce[illegible] item in the estimate and the total w[illegible] a few dollars below 10% in excess [illegible] total of the estimate. For this reas[illegible] award was made. The work will be [illegible]ised as soon as possible. Itemized bi[illegible] given last week under Contract Pri[illegible].

DITCHES.—Emmetsburg, [illegible]—Bids were received on Jan. 31 by the [illegible] of Supervisors, Palo Alto County, for constructing various ditches, etc. Sim[illegible] Stedman, County Audr. Contracts were awarded as follows: Drainage Dist. No. [illegible] R. H. McWILLIAMS, Clarion, Iowa, [illegible] work, $7,035; L. L. Bingham, Estherv[illegible], Iowa, tile etc., $23,524; accepted bid as a whole, $30,559.

Drainage Dist. No. 19. PHIL DAILY, Ayrshire, Iowa, open work, $15[illegible] L. L. BINGHAM, Estherville, Iowa, tile, etc., $9,587; bid as a whole, $9,741.

Drainage Dist. No. 18. DAN McNABB, Britt Iowa, tile, etc., $9,580; DAN McNABB, Britt, Iowa, open work at 20[illegible] cu. yd.

Drainage Dist. No. 16. JOHN DOOLEY, Emmetsburg, Iowa, Sections 1 and 2, $1,640.

Drainage Dist. No. 15. TIBEY BROS., Dubuque, Iowa, open work and tile, $48,887.

*REVETMENT.—Grand Rapids, Mich.—Bids were received as follows on Feb. 5 by Maj. Charles Keller, Corps Engrs., U. S. A., for construction of sheet pile revetment at Muskegon Harbor, Mich: (A) 12,620 lin. ft. oak piles; (B) 13,195 ft. B. M. oak timber; (C) 165,094 ft. B. M., pine or Douglas fir timber; (D) 280,822 ft. B. M., pine or Douglas fir plank for sheet piles; (E) 10,805 ft. B. M. pine or Douglas fir plank for decking; (F) 19,069 lbs. drift bolts; (G) 9,313 lbs. screw bolts; (H) 12,397 lbs. tie rods; (I) 8,000 lbs. carriage bolts; (J) 853 lbs. spikes; (K) approximate total:

Burk, Smith & Nelson, Muskegon, Mich., (A) 33 cts., (B) $60, (C) $43, (D) $45, (E) $[illegible], (F) 4 cts., (G) 4 cts., (H) 4 cts., (I) 4 cts., (J) 4 cts., (K) $27,155.

Geo. E. Culbert, Michigan City, Ind., (A) 35 cts., (B) $45, (C) $45, (D) $45, (E) $45, (F) 5 cts., (G) 6 cts., (H) 6 cts., (I) 5 cts., (J) 5 cts., (K) $28,292.

A. J. Dupuis, Detroit, Mich., (A) 36 cts., (B) $52, (C) $46, (D) $47, (E) $39, (F) 4½ cts., (G) 4½ cts., (H) 5 cts., (I) 4½ cts., (J) 4½ cts., (K) $28,776.

Interstate Dredge & Dock Co., Duluth, Minn., (A) 34 cts., (B) $63, (C) $46, (D) $49.75, (E) $44.50, (F) 3 cts., (G) 3 cts., (H) 3 cts., (I) 3 cts., (J) 3 cts., (K) $29,005.

Columbian Construction Co., Muskegon, Mich., (A) 33 cts., (B) $57, (C) $42.50, (D) $54, (E) $45, (F) 4½ cts., (G) 4½ cts., (H) 4½ cts., (I) 5 cts., (J) 5 cts., (K) $29,880.

M. Rabbitt & Sons Co., Toledo, Ohio, (A) 41½ cts., (B) $57.75, (C) $57.75, (D) $57.75, (E) $57.75, (F) 8 cts., (G) 8 cts., (H) 8 cts., (I) 8 cts., (J) 8 cts., (K) $36,362.

Marquette Construction Co., Chicago, Ill., (A) 69 cts., (B) $95, (C) $84, (D) $94, (E) $62, (F) 7 cts., (G) 9 cts., (H) 11 cts., (I) 9 cts., (J) 9 cts., (K) $55,272.

BARGE CANAL.—Albany, N. Y.—F. C. Stevens, Supt. of Public Works, on Feb. 5 issued an order to Mosier & Summers, of Buffalo, N. Y., declaring the work under the Barge Canal contract held by them, suspended. This contract is known as Contract No 10, Barge Canal, and is for excavating the Oswego canal and protecting its sides, constructing Locks 2 and 3, the dams, bulkheads and other incidental details between .35 of a mile above the Broadway bridge and .28 of a mile below the Oneida St. bridge at Fulton, N. Y.; length of contract 1.2 miles. The contract price is $1,126,718. The order of the Superintendent of Public Works, suspending the contract work, was issued in pursuance of a resolution passed by the Canal Board on Jan. 29, which action was based on the certificate of the State Engineer and Surveyor that the work "was not being performed in such manner as accords with the contract and to the best interests of the State," the certificate being based on the fact that the contractors either failed or refused to comply with the order of the State Engineer to proceed with the work of constructing Lock No. 2 covered by the contract, in accordance with the plans and specifications, though such orders were given in writing repeatedly. Superintendent Stevens has directed his subordinates to take possession of the contractor's plant, pending the taking of further steps, and has set Feb. 13 as a date for a conference on the matter with the contractors and their sureties, at which time it will be determined what future action will be taken with respect to this contract. Under the provisions of the Barge Canal law and of the contract, two methods are open to the State: One, to cancel the contract and perform the work with State forces under the direction of the Superintendent of Public Works; the other, to cancel the contract and readvertise and relet it in the regular manner. Neither process would result in relieving the contractors' sureties.

The thing that has led to the present complications is the location of one of the proposed locks, the contractors claiming that its construction during the closed season of

navigation on the Oswego canal is an impossibility; whereas, under the contract and the law, the operation of the Oswego canal between May 15 and Nov. 15 is made mandatory on the Superintendent of Public Works. Under the contract, the prices bid cover the maintenance of navigation. The contract was awarded in June, 1906, and calls for completion by July 1, 1909.

## U. S. POSSESSIONS AND CUBA.

(*denotes that this work is advertised in Engineering News.)

*BREAKWATER.—Hawaii.—Bids are asked by Capt. C. A. Howell, Corps Engrs., U. S. Army, Honolulu, until noon, March 31, for construction of breakwater or for stone for breakwater at Hilo Harbor, Hawaii, T. H. (Advertised on Jan. 30).

*LIGHT STATION.—Alaska.—One bid only was received by the Light-House Engineer, Portland, Ore., on Jan. 14 for construction of the Hinchinbrook Entrance light station, Alaska. Contract was awarded to FASTABEND, PALMBERG & HALBECK, Astoria, Ore., at $99.

BOX AND BALLAST CARS.—Panama.—Bids are asked by the Panama R. R. Co., 24 State St., New York, until 2 p. m., Feb. 24, for furnishing 300 box cars and 100 ballast cars. F. C. Nordsiek, Asst. Pur. Agt.

EXPLOSIVES.—Panama.—The Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the E. I. Du PONT DE NEMOURS POWDER CO., 90 West St., New York, contract for furnishing 2,025,000 lbs. of 45 per cent. nitroglycerin saltpetre dynamite at $12 per cwt., and 150,000 lbs. of 60 per cent. dynamite at $13.25. Bids were asked under circular letter.

Requisitions were received Feb. 5 by the Isthmian Canal Commission, Washington, D. C., for a large quantity of explosives, as follows: 2,500,000 lbs. of 60 per cent. and 2,025,000 lbs. of 45 per cent. nitroglycerine saltpeter dynamite, in cartridges, 1¼ ins. diameter by 8 ins. long; 30,000 lbs. of 60 per cent. and 175,000 lbs. 45 per cent., 1 in. by 8 ins; 2,000 lbs. 60 per cent. cartridges, 2 ins. diameter by 2½ ins. each; 224,000 electric exploders, 10 ft. to 40 ft.; 444,000 detonators of quintuple strength, with triple tape fuse and lead wire. Bids will be asked on this material to be opened about Feb. 28.

WATER-WORKS, SEWERAGE. — Cuba.—Max J. Baehr, U. S. Consul at Cienfuegos, makes the following report on the proposed public improvements in that city: "In January, 1906, at a general election Cienfuegos authorized a loan of $3,080,000 to be issued in 5 per cent. bonds for building of waterworks and sewers. The bonds were floated, and in March, 1906, the city council awarded the contract to a party from New York City, whose bid was for the sum of $2,376,157. Work was at once commenced, but in February, 1907 the new City Council adopted a resolution ordering an investigation into the validity of the contract. Governor Magoon in a decree issued Dec. 31, 1907, fully supports the City Council in its contention against the validity of the contract, and the City Council's resolution whereby the contract for a loan of $3,080,000 for carrying out the works was rescinded. The Government is fully aware of the great necessity of a water-works and sewerage system in this city for hygienic reasons and the people confidently expect the early construction of these improvements under the supervision of the Government." On March 15, 1906, it was noted in the Construction News Supplement that the city of Cienfuegos had awarded contract for building an aqueduct and sewer system to HUGH J. REILLY, 22 East 21st St., New York, at $2,300,000.

POWER PLANT.—Panama.—Bids were received as follows on Feb. 6 at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing a material handling power plant to drive the cable ways to be installed in connection with the construction of the Gatun dam. The plant will include a boiler-room equipment and an engine-room equipment. The boiler-room equipment will consist of six 350-H.P. water-tube boilers, one sheet-steel smoke box, one steel stack, two duplex boiler feed pumps, one vertical water tube feed water heater, one fuel economizer and one induced draft centrifugal fan and engine. Alternative bids (A) are asked on eight boilers, one sheet-steel smoke box, one smoke stack, two duplex boiler feed pumps, one vertical water tube feed water heater, and one damper regulator. Both bids include piping and fittings. The bids on this equipment were: Abendroth & Root Mfg. Co., Newburgh, N.Y., $52,242, 30-90 days; (A) $56,600, 30-105 days. Central Metal & Supply Co., 609 East Lombard st., Baltimore, $70,500. (A) $80,000, 60-150 days. D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, $51,350; (A) $57,690, 90-130 days. A. D. Granger Co. 90 West St., New York, $66,900; (A) $73,687, 180-240 days. Modern Steel Structural Co., Waukesha, Wis. (stack only), $1,072, $2,958. Motley, Green & Co., 66 Broad St., New York, $54,781; (A) $61,821, 70-90 days. National Blower Works, Milwaukee, Wis. (fan and motor only), $1,340, 70 days. Heine Safety Boiler Works, Pennsylvania Bldg., Philadelphia, $50,117; (A) $53,901, 90-120 days. Babcock & Wilcox Co., 85 Liberty St., New York, $55,036; (A) $61,841; 60-90 days; alternatives, $53,023, $60,206; (A) $58,602, $68,693.

The engine room equipment will consist of five turbine generators 750 KW., two horizontal surface condensers, 27,000 lbs. per hour, one horizontal surface condenser, 13,500 lbs. per hour, two engine-driven dry vacuum pumps, two horizontal engine-driven centrifugal circulating pumps, 18-in., piping and fittings, one electric-trolley electric crane, 20-ton, five generators, 1,000 k. v. a., three turbo-generator exciters, three rotary converters, nine oil-cooled transformers, nine standard air-blast transformers (alternative), three motor generators, (alternative), three induction motor generators, (alternative), six transformers, standard transformers, lightning arresters, switchboard and connections, and five portable ammeters and voltmeters. The bid is complete without the three alternatives mentioned. The bids on the engine-room equipment were: Westinghouse Electric & Mfg. Co., Continental Trust Bldg., Baltimore, $208,577; 210 days. General Electric Co., Schenectady, N. Y., $197,492; $115,786; $194,893; $195,806; 90 to 300 days. R. W. Geldart, 4 Stone St., New York (on electric crane only), $4,868; 100 days. Manning, Maxwell & Moore, 85 Liberty St., New York, circulating pumps, $1,022 and $1,177 each; electric crane $3,995. Modern Steel Structural Co. Waukesha, Wis., electric crane, $4,620; $4,300.

## FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

DREDGER.—Argentine.—Bids are asked by the Minister of Public Works until April 25 for supplying a dredger. Particulars and specifications can be obtained at the Department of Hydraulic Works, "Machinery and Materials" Section, Government House, Buenos Ayres.

STEAMSHIPS.—Germany.—The shareholders of the North German Lloyd Steamship Co. at the annual meeting on Feb. 7, unanimously approved a resolution to raise a loan of $6,250,000 for the purpose of building four large steamships. Oelrichs & Co., 5 Broadway, New York, are the General Agents.

PORT IMPROVEMENTS.—Brazil.—Bids are asked until noon, March 26, at the Directoria Geral de Obras e Viacao, Ministerio da Industria, Viacao e Obras Publicas, Rio de Janeiro, for improvement works at the port of Recife, in the State of Pernambuco. A deposit of 100,000 milreis (about $54,600) will be required to qualify any bid. The successful competitor will be required to increase his deposit to 300,000 milreis (about $163,800).

BRIDGE.—South America.—The municipality in one of the west coast cities of South America has directed the electric tramway company to replace an existing bridge by a new structure, which will require considerable steel, but no public announcement has yet been made. Makers of bridge material should address an official of the company, whose name is filed with the Bureau of Manufactures, Dept. Commerce and Labor, Washington, D. C. Refer to file No. 1895.

WATER-WORKS.—Italy.—Bids are asked until noon, Feb. 20, by the Communal Authorities of Campofranco for the works required in connection with the water supply of that Commune, the water to be derived from the streams Edera, Minaga and alle. The estimated cost of the works is 153,944 lire (about $30,000). The period for the presentation of further bids on more favorable terms will expire at noon, March 9. It is stated that local representation is necessary.

ELECTRIC RAILWAY EQUIPMENT.—Europe.—The Daily Consular and Trade Reports, Bureau of Manufactures, Dept. of Commerce and Labor, states that an American Consul in Europe has forwarded a list of specifications for the construction of a new electric railway, work upon which it is expected will commence during the coming summer. The equipping of this railway will offer an opportunity to American manufacturers to supply steel rails, iron sleepers, double truck motor cars, tugs, steam turbo-dynamos and other necessary items. (In applying for information and addresses refer to file No. 1864).

TELEPHONE MATERIAL. — Australia.—Bids are asked by the Postmaster-General, Melbourne, until 3 p. m., May 26, for the following equipment: (a) Apparatus for exchange: one common battery switchboard, of 30 sections in all, together with all associated frames, racks, power plant, and parts; (b) apparatus for subscribers' premises: 3,000 telephone wall sets, 1,000 telephone table sets, 150 extension switches (complete), 70 switchboards for two and six lines, 50 switchboards for three and ten lines, ten switchboards for six and 20 lines, ten switchboards for eight and 50 lines, 200 telephone wall sets, and 100 telephone table sets for party lines.

RAILWAYS.—Bulgaria.—Bids are asked until 11 a. m., March 7, by the Bulgarian "Direction des Constructions des Ports et des Chemins de Fer" 1, Sofia, for the construction of the following railway lines: Mezdra-Vratza, Boitchinovtzi, Broussartzi, Tchoriovo, Orechetz, Alexandrovo, Goltoupan, Vidin, and branch lines Boitchinovtzi, Ferdinand, Bercovitza, and Broussartzi—Lom. The total length of the lines to be constructed, including branch lines, is 243 kilometers, viz., Nezdra-Vidin, 181 kilometers; Boitchinovtzi-Bercovitza, 37.6 kilometers; and Broussartzi-Lom, 24.4 kilometers. A deposit of 1,050,000 frs. ($210,000) is required. It would be advisable to submit bids in the French language, and through a competent agent.

RAILROAD.—Chile.—Congress has passed a bill authorizing the President to make contracts for a railroad running north and south. She bill limits immediate expenditure to about $37,500,000, but it is intended eventually to extend the line to the northern and southern frontiers. Early last year it was reported that Congress had approved the bill providing for the construction of what is known as the Longitudinal Railway, but this report proved to be erroneous. Owing to the strenuous opposition of the minority this bill was left for a future session. When completed this railway will run from the frontier of Peru to the Strait of Magellan, a distance of about 2,600 miles. Spur lines will be built to coast ports, mining districts and agricultural areas.

## CIVIL SERVICE EXAMINATIONS.

TESTING ASSISTANT.—Washington, D. C.—An examination will be held on Feb. 26, by the U. S. Civil Service Commission to fill a vacancy in the position of testing assistant (male) at $800 a year, and vacancies requiring similar qualifications as they may occur in that service. Age limit, 18 years or over. Application Form 1312.

ARTIST AND DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 19-20, to secure eligibles from which to make certification to fill a vacancy in the position of draftsman, $1,200 a year, Division of Publications, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years or over. Application Form 304.

APPRENTICE DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 4 to secure eligibles to fill a vacancy in the position of apprentice draftsman (male), Office of the Chief of Ordnance, War Dept., at $360 a year, and vacancies requiring similar qualifications as they may occur in that Department. Promotion is made up to $60 per month, in the discretion of the Chief of Ordnance. An apprentice may enter the competitive examination for the position of draftsman (entrance salary $1,000 to $1,200) whenever, in the opinion of his superior officer, his training and experience are sufficient. Age limit, 17 to 21 years. Application Form 1312.

## INDUSTRIAL NOTES.

THE SULLIVAN MACHINERY CO., Railway Exchange, Chicago, announces that Mr. George M. Bertram, for several years connected with the company, has been appointed local manager of its branch office at Joplin, Mo., succeeding Mr. Randolph D. Talmage.

THE NATIONAL EQUIPMENT CO., 1262 Monadnock Block, Chicago, has been incorporated to build hoisting machinery. Manager F. M. Fish (formerly with the American Hoist & Derrick Co. and Browning Engineering Co.); Engineer, A. G. A. Schmitt (formerly with the American Hoist & Derrick Co.).

WILLIAMS, BROWN & EARLE, of Philadelphia, are installing, for the United States Government, in the Bureau of Forestry, Washington, D. C., one of their complete perfecting blue printing, washing and drying machines. This machine is arranged not only to make the blue prints, potash, and dry them, but also to make, develop and dry, sepia prints.

JOHN A. ROEBLINGS SONS CO. Trenton, N. J., advises us that it is in a position to continue prompt shipments of wire rope to customers. The company will immediately begin to rebuild the shop which was destroyed and anticipates no trouble whatever in fully meeting the present trade demand for wire rope and in being in a position, through additional facilities, to meet the increase which will naturally come within a short time.

IN ACCORDANCE WITH its usual custom, the H. W. Johns-Manville Co., New York, held a convention of its branch managers, in New York, from Jan. 29 to Feb. 1. The managers of the various branches of the company throughout the United States were present at the meeting and a general discussion of the business affairs of the company took place. As a wind-up of the convention a banquet was given to the managers, at the Union League Club on Friday evening, Jan. 31.

THE A. M. BLODGETT CONSTRUCTION Co. reports that it will extend its business of designing and building bridges, foundations, steel structures, tunnels and dams and pneumatic pier work. The officers are A. M. Blodgett, M. Am. Soc. C. E., Pres.; L. G. Blodgett, Vice-Pres. and Engr.; John Springer, Secy. and Treas.; Wm. P. Parker, Assoc. M. Am. Soc. C. E., Ch. Engr.; T. J. Newell, Supt. of Construction; J. A. Blodgett, Asst. Supt. of Construction; Chas. Moffitt, Contracting Agent.

WE ARE ADVISED through the Hunkins-Willis Lime & Cement Co., St. Louis, Mo., that the Jones & Laughlin Steel Co. is roofing all its buildings at Aliquippa, Pa., with the Bonanza reinforced concrete roofing tile. The United States Steel Corporation is using the same at Gary, Ind., and it will use about 29,000 squares. The Pittsburg Plate Glass Co. has more than 20 acres of Bonanza roofing at Crystal City, Mo., and has contracted to use the same roofing for all its buildings of its new plant to be erected at Kokomo, Ind.

THE G. DROUVE COMPANY, of Bridgeport, Conn., at the annual meeting of its directors, held Feb. 3, 1908, elected G. Drouve Pres. and Treas. and William V. Dee Secy. of the company. Mr. Dee, who recently resigned from "The Railway Age" to take an interest in the company, has been appointed General Sales Manager. The company manufactures the Anti-Pluvius skylight of which 125,000 sq. ft. has been installed on the Hoboken terminal of the Delaware, Lackawanna & Western R. R. and the Lovell Window Operating device now used in the shops of the N. Y. C. & H. R. R. R. Co., Harmon, N. Y., the Delaware, Lackawanna & Western R. R. Co., Scranton, Pa., and a number of others, also the Drouve ventilator, drying stove, etc.

HYDRO-ELECTRIC PLANT FOR TOKIO, Japan.—The first 60,000 volt hydro-electric plant in Japan has just been put into service with signal success after having passed the rigid inspection which is required by the Japanese Government of all electrical installations. Power is obtained by impounding the Ugigawa River, a narrow and swift but deep river such as is often found in the mountainous portions of the Flowery Kingdom. The normal capacity of the main station is 18,000 kilowatts, and is furnished by six 3,000-KW., 50-cycle, 6,000-volt water-wheel driven alternators.

The entire transformer, regulating and controlling equipment, consisting of 18 water cooled and 54 oil cooled transformers, 81 single-phase induction feeder regulators and 149 switchboard panels, was furnished by the General Electric Company as was also the lead armored cable.

THE RIVERSIDE BRIDGE COMPANY shops at Martins Ferry, Ohio, reports a marked improvement in the structural steel building line, having recently booked a number of contracts for buildings and bridges, including the McFadden Building on Market St., Wheeling, and an addition to the residence of Edward Hazlett; Giesey & Faris being Archs. for both; a gas producer house for the Tyler Tube & Pipe Co., Washington, Pa., and a 1,500-ft. steel trestle connecting same with the B. & O. R. R.; extensive additionals to the Whitaker works of the Whitaker-Glessner Co.; also several highway bridges in Ohio, West Virginia and Maryland, making sufficient tonnage to keep their shops in work for several weeks. This company also reports a large number of inquiries for work in their line of steel construction, indicating a good demand for the coming spring and summer.

**For other Proposal Advertisements see pages 47, 48, 50, of Advertisements and Construction News page 52.**

## PAVING.

Watertown, N. Y.

Sealed proposals will be received by the Board of Public Works at the office of the City Engineer, in the City Hall, Watertown, N. Y., until 5 P. M., February 20, 1908, for the construction of about 4,500 square yards of pavement in that portion of LeRay and Main Streets between the northerly end of the Court Street bridge, so called, and the westerly margin of the public right of way on Main Street leading to the new freight terminal of the New York Central and Hudson River Railroad Company, including the street intersection of LeRay and Main Streets, together with the necessary curbing, grading, culverts, catch basins and all other work in connection therewith for the proper completion of the pavement. Bids will be received for each of the following kinds of pavement:

Medina block pavement on concrete base.

Vitrified paving block or brick on concrete base. Samples of the materials to be used in the different kinds of pavements must be deposited with the City Engineer at or before the time of making the bid.

Plans and specifications for each of the above kinds of pavement are open to public inspection and may be seen at the office of the City Engineer at the City Hall, from whom blank proposals can be obtained.

The Board of Public Works reserves the right to reject any and all bids received.

A certified check for five hundred dollars, payable to the order of the City Treasurer, Watertown, N. Y., must accompany each bid.

BOARD OF PUBLIC WORKS,
H. E. BAKER,
City Engineer.

Watertown, N. Y., February 7th, 1908.

## SEWER.

Gary, Ind.

Notice is hereby given that the Board of Trustees of the Town of Gary, Lake County, Indiana, will on March 10th, 1908 at 2:00 o'clock P. M. at its office at No. 770 Broadway, in said town, receive and open sealed bids for the construction of District Sewer No. 1, in the Town of Gary, commencing at a point 150 feet south of the south line of 5th Avenue in the center line of the alley between Georgia and Rhode Island Streets, where said sewer is to join a present existing sewer, and shall extend thence south to the intersection of 13th Avenue produced, thence west to the center line of the alley between Broadway and Massachusetts Street; thence west to the center line of the alley between Madison and Jefferson Streets. The north branch of said sewer shall be constructed in the alley between Broadway and Washington Street; commencing at the intersection thereof with that portion of said sewer in 13th Avenue, and shall extend north to the intersection of 10th Avenue.

The south branch of said district sewer shall be constructed in the alley between Broadway and Massachusetts Street and, said alley produced, commencing at the intersection thereof with the center line of 13th Avenue produced; thence south to the center line of 21st Avenue; thence west to the intersection of the center line of the alley between Broadway and Washington Street.

Said sewer shall be constructed in accord-

ance with the plans and specifications now on file in the office of the Town Engineer of said town. All bids must be on file by 2:00 o'clock P. M. on said day, and each bid must be accompanied by a certified check for not less than 2% of the bid to insure the execution of the contract. Such checks shall be returned to the unsuccessful bidders, and to the successful bidder, when he enters into said contract and furnishes the indemnity provided by law.

THOMAS E. KNOTTS,
MILLARD A. CALDWELL,
JOHN E. SEARS,
Board of Trustees of the Town of Gary, Lake County, Indiana.
Attest: C. O. HOLMES, Clerk.

## SANITARY SEWER.

Upper Sandusky, Ohio.

Sealed proposals will be received by the undersigned at the office of the Village Clerk of Upper Sandusky, Wyandot County, Ohio, until twelve (12) o'clock noon of Thursday, February 27th, 1908, then and there to be publicly opened and read, for the construction of about 4,268 feet of main trunk vitrified pipe sewer for the proposed sanitary sewer system with the necessary appurtenances. Sizes of pipe range from 15 to 24 inches.

All proposals to be made on blanks furnished by the village. Each bidder will accompany bid with a deposit of $500.00, or certified check for same amount payable to order of the undersigned as a guaranty that within ten (10) days of the acceptance of his bid he will enter into contract with the village, and execute a bond for an amount equal to 40% thereof.

Bidders are requested to personally look over the work.

Plans and specifications can be seen and bidding blanks obtained at the office of the undersigned.

A. H. STRUTZ, Village Clerk.

## SEWER.

Gary, Ind.

Notice is hereby given that the Board of Trustees of the Town of Gary, Lake County, Indiana, will on March 10th, 1908 at 2:00 o'clock P. M. at its office at No. 770 Broadway, in said town, receive and open sealed bids for the construction of Local Sewer No. 3, in the alley between Broadway and Washington Street from the south line of the right of way of the Pittsburg, Ft. Wayne & Chicago Railroad Company (commonly called Pennsylvania Company) to the North line of 22d Avenue. Said sewer shall be constructed in accordance with the plans and specifications now on file in the office of the Town Engineer of said town. All bids must be on file by 2:00 o'clock P. M. on said day, and each bid must be accompanied by a certified check for not less than 2% of the bid to insure the execution of the contract. Such checks shall be returned to the unsuccessful bidders, and to the successful bidder when he enters into said contract and furnishes the indemnity provided by law.

THOMAS E. KNOTTS,
MILLARD A. CALDWELL,
JOHN E. SEARS,
Board of Trustees of the Town of Gary, Lake County, Indiana.
Attest: C. O. HOLMES, Clerk.

PHILADELPHIA & READING RAILWAY COMPANY.

Construction of the Work Appurtenant to the Abolishment of Grade Crossings on the P. G. & N. R. R.

Philadelphia, Pa.

Sealed proposals for the work of construction under the following contracts will be received at the office of the Chief Engineer, 520 Reading Terminal, Philadelphia, Pa., until 12 o'clock noon, on Thursday, February 27, 1908.

Contract No. 28—Car Cleaning Yard, Huntingdon Street.

Contract No. 30—Coal Pocket Yard between Berks and Norris Streets (east side).

Plans, specifications and blank forms for bidding may be obtained at 520 Reading Terminal, by making a deposit to cover their return in good order.

Foreign Corporations must furnish with their proposals a certificate from the State authorities, entitling them to do business within the State of Pennsylvania.

The right is reserved by the Company to reject any or all bids.

W. HUNTER, Chief Engineer.

## SEWER.

Gary, Ind.

Notice is hereby given that the Board of Trustees of the Town of Gary, Lake County, Indiana, will on March 10th, 1908 at 2:00 o'clock P. M. at its office at No. 770 Broadway, in said town, receive and open sealed bids for the construction of Local Sewer No. 2, in the alley west of Broadway from the center of 13th Avenue to the south line of 20th Avenue. Said sewer shall be constructed in accordance with the plans and specifications now on file in the office of the Town Engineer of said town. All bids must be on file by 2:00 o'clock P. M. on said day, and each bid must be accompanied by a certified check for not less than 2% of the bid to insure the execution of the contract. Such checks shall be returned to the unsuccessful bidders, and to the successful bidder when he enters into said contract and furnishes the indemnity provided by law.

THOMAS E. KNOTTS,
MILLARD A. CALDWELL,
JOHN E. SEARS,
Board of Trustees of the Town of Gary, Lake County, Indiana.
Attest: C. O. HOLMES, Clerk.

STATE OF NEW YORK, OFFICE OF Superintendent of Public Works, Albany, February 10, 1908.—Notice to Contractors:

Sealed proposals will be received by the undersigned at his office in the Capitol in Albany, N. Y., until twelve o'clock noon of Tuesday, March 10, 1908, at which place and hour they will be publicly opened and read, for improving the New York State canals, pursuant to the provisions of chapter 147 of the Laws of 1903, and of the amendments thereto, as follows:

CONTRACT NO. 9.
Erie Canal—Section 10.

For the improvement of the present Erie canal from 0.164 mile east of Eagle Harbor bridge to 0.09 mile west of Beal's bridge. Length of contract, 5.682 miles.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works, at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division, at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for Western Division, at Rochester, N. Y.; and at the canal office, Spaulding's Exchange, Buffalo, N. Y. Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90%) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5%) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal. Upon execution of the contract and approval of bonds, the deposit will be returned to the proposer. The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made. The amount of bond required for faithful performance will be twenty-five per centum (25%) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10%) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

Each proposal must be addressed: To the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

F. C. STEVENS, Superintendent of Public Works.

## SEWER.

Gary, Ind.

Notice is hereby given that the Board of Trustees of the Town of Gary, Lake County, Indiana, will on March 10th, 1908 at 2:00 o'clock P. M. at its office at No. 770 Broadway, in said town, receive and open sealed bids for the construction of Local Sewer No. 4, in the alley between Broadway and Massachusetts Street, from the center line of 21st Avenue to the north line of 22d Avenue. Said sewer shall be constructed in accordance with the plans and specifications now on file in the office of the Town Engineer of said town. All bids must be on file by 2:00 o'clock P. M. on said day, and each bid must be accompanied by a certified check for not less than 2% of the bid to insure the execution of the contract. Such checks shall be returned to the unsuccessful bidders, and to the successful bidder when he enters into said contract and furnishes the indemnity provided by law.

THOMAS E. KNOTTS,
MILLARD A. CALDWELL,
JOHN E. SEARS,
Board of Trustees of the Town of Gary, Lake County, Indiana.
Attest: C. O. HOLMES, Clerk.

## BRICK PAVEMENT.

Paris, Ill.

Sealed proposals for 7,524 sq. yds. of brick pavement on East Washington Street, on concrete foundation, will be received by T. C. McCord, President of the Board of Local Improvements of the City of Paris, Illinois, at the City Engineer's office up to 7:30 o'clock P. M., Feb. 18, 1908.

Certified check of ten per cent. must accompany bids. Contractor will be paid in bonds (5 per cent. special assessment and municipal).

Proposal blanks and specifications can be had from

W. T. BLACKBURN, City Engineer, Paris, Illinois.

## SEWER.

Gary, Ind.

Notice is hereby given that the Board of Trustees of the Town of Gary, Lake County, Indiana, will on March 10th, 1908 at 2:00 o'clock P. M. at its office at No. 770 Broadway, in said town, receive and open sealed bids for the construction of Local Sewer No. 1, in the alley west of Broadway, from a point 30 feet south of the north line of Section 9, Township 36 North, Range 8 West, to the center line of 10th Avenue to join the district sewer at said point. Said sewer shall be constructed in accordance with the plans and specifications now on file in the office of the Town Engineer of said town. All bids must be on file at 2:00 o'clock P. M. on said day, and each bid must be accompanied by a certified check for not less than 2% of the bid to insure the execution of the contract. Such checks shall be returned to the unsuccessful bidders, and to the successful bidder when he enters into said contract and furnishes the indemnity provided by law.

THOMAS E. KNOTTS,
MILLARD A. CALDWELL,
JOHN E. SEARS,
Board of Trustees of the Town of Gary, Lake County, Indiana.
Attest: C. O. HOLMES, Clerk.

STORAGE DOCK AND TIMBER WHARF.—FORT WOOD, N. Y. H., February 13, 1908.—Sealed proposals, in triplicate, for the construction of storage dock and timber wharf at this post will be received here until 2.45 p. m., April 1, 1908, and then opened. The U. S. reserves the right to reject any or all bids. Information furnished on application. Envelopes should be marked "Proposals for Dock and Wharf," and addressed to the undersigned, G. C. BURNELL, Constr. Q. M.

U. S. ENGINEER OFFICE, New London, Conn., Feb. 10, 1908.—Sealed proposals for dredging in Thames River, Conn., will be received here until 12 o'clock noon, March 11, 1908, and then publicly opened. Information furnished on application. HARRY TAYLOR, Major Engrs.

## BRICK PAVEMENT.

Paris, Ill.

Sealed proposals for [illegible] sq. yds. of brick pavement on Chestnut Street, on concrete foundation, will be received by T. C. McCord, President of the Board of Local Improvements of the City of Paris, Illinois, at the City Engineer's office up to 7:30 o'clock P. M., Feb. 18, 1908.

Certified check of ten per cent. must accompany bids. Contractor will be paid in bonds (5 per cent. special assessment and municipal).

Proposal blanks and specifications can be had from

W. T. BLACKBURN, City Engineer, Paris, Illinois.

## BRICK PAVEMENT.

Paris, Ill.

Sealed proposals for [illegible] sq. yds. of brick pavement on East Main Street, on concrete foundation, will be received by T. C. McCord, President of the Board of Local Improvements of the City of Paris, Illinois, at the City Engineer's office up to 7:30 o'clock P. M., Feb. 18, 1908.

Certified check of ten per cent. must accompany bids. Contractor will be paid in bonds (5 per cent. special assessment and municipal).

Proposal blanks and specifications can be had from

W. T. BLACKBURN, City Engineer, Paris, Illinois.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., February 7, 1908.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 16th day of March, 1908, and then opened, for the construction of quarters and hospital buildings at Santa Rosa Quarantine Station, Pensacola, Florida, in accordance with drawings and specification, copies of which may be had at the discretion of the Supervising Architect, by applying at this office or to the office of the Medical Officer in Command, Pensacola, Florida. JAMES KNOX TAYLOR, Supervising Architect.

SEALED PROPOSALS for construction of a wharf at Fort Taylor, Key West, Florida, will be received at the office of the undersigned until 11 A. M., March 14th, 1908, and then opened. Information furnished on application to Depot Quartermasters at New York, Philadelphia, Pittsburg, Chicago, and the undersigned. Proposals should be marked "Proposals for Wharf," and addressed to CAPTAIN C. H. LANZA, Constructing Quartermaster, Key West, Florida.

SEALED PROPOSALS, in triplicate, will be received at this office until 11 a. m., March 12, 1908, for furnishing one Steam Boiler, 125 HP., with accessories, complete. Bids will state price F. O. B. Key West, Fla., or New York City. Information furnished on request. Envelopes containing proposals should be indorsed "Proposals for Steam Boiler," and addressed CAPTAIN CONRAD H. LANZA, Constr. Q. M., U. S. A., Key West, Fla.

U. S. ENGINEER OFFICE, Room F-7, Army Building, New York, N. Y., February 13, 1908.—Sealed proposals for furnishing and delivering Piling and Round Timber; Square Timber and Lumber; Rubbie Stone, Quarry Spalls and Quarry Refuse; Bolts, Spikes, etc., for constructing and repairing dikes in the Hudson River, N. Y., will be received at this office until 12 M., March 16, 1908, and then publicly opened. Information on application. JOHN G. D. KNIGHT, Col., Engineers.

U. S. ENGINEER OFFICE, Honolulu, T. H., Jan. 31, 1908.—Sealed proposals for construction of breakwater or for stone for breakwater construction at Hilo Harbor, Hawaii, T. H., will be received here until 12 M., March 31, 1908, and then publicly opened. Information furnished on application to Chief Engineer, Pacific Division, 1840 Polk Street, San Francisco, Cal., or this office. C. W. OTWELL, Capt., Engrs.

U. S. ENGINEER OFFICE, New London, Conn., Feb. 12, 1908.—Sealed proposals for dredging in Pawcatuck River and Little Narragansett Bay, R. I., and Conn., will be received here until 12 o'clock noon, March 13, 1908. Information furnished on application. HARRY TAYLOR, Major Engrs.

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